YAMAHA

Clavinova®

Reference Booklet

CVP-109
CVP-107
CVP-105
CVP-103
CVP-103M
CVP-700

Table of Contents

Voice List

CVP-109/107/700

Category	Voice Name	Voice #		
		MSB #	LSB #	Program Change #
Piano	Grand Piano	0	112	0
	Bright Piano	0	112	1
	Mellow Piano	0	114	0
	Rock Piano	0	113	1
	Midi Grand	0	115	2
	Harpsichord1	0	112	6
	Harpsichord2	0	113	6
	Grand Harpsi	0	115	6
	Honky Tonk	0	112	3
	NewAgePiano	0	118	2
E.Piano	Stage EP 1	0	112	4
	Galaxy EP	0	118	5
	New Tines	0	113	5
	Funk EP	0	113	4
	DX EP Modern	0	115	5
	Vintage EP	0	115	4
	CP80	0	116	2
	Tremolo EP	0	118	4
	Hyper Tines	0	117	5
	Clavi.	0	112	7
	DX EP	0	112	5
	Venus EP	0	116	5
	Dream EP	0	114	5
	Stage EP 2	0	117	4
	Wah Clavi.	0	113	7
	DX treme	0	113	92
	Funky Clavi.	0	114	7
	Galaxian EP	0	113	100
	DX-EP & Str.	0	118	88
Guitar	Spanish Gtr.	0	113	24
	12Str.Guitar	0	115	25
	Solid Guitar	0	115	27
	Bright Clean	0	113	27
	Solid Chord	0	117	27
	Jazz Guitar1	0	113	26
	Mute Guitar	0	112	28
	Banjo	0	112	105
	HawaiianGtr.	0	114	26
	Crunch Gtr	0	113	30
	Smooth Nylon	0	114	24
	Elec12string	0	126	27
	Folk Guitar1	0	116	25
	60’s Clean	0	124	27
	Clean Guitar	0	112	27
	Jazz Guitar2	0	112	26
	OctaveGuitar	0	115	26
	Mandolin	0	114	25
	Pedal Steel	0	114	27
	Feedback Gtr	0	113	29
	Gut Guitar	0	112	24
	Folk Guitar2	0	112	25
	StackCrunch	0	114	30
	Dist. Guitar	0	112	30
Synth	Golden Age	0	115	88
	Insomnia	0	113	94
	Wave 2010	0	114	95
	NewAge Pad	0	113	88
	Fire Wire	0	113	81
	Wire Lead	0	114	81
	Blaster	0	112	87
Synth	Square Lead	0	112	80
	Analogon	0	115	81
	Funky Lead	0	116	81
	Cyber Pad	0	113	99
	Choir Pad	0	112	91
	Atmosphere	0	112	99
	Brass Pad	0	112	90
	Warm Pad	0	112	89
	Saw. Lead	0	112	81
	Equinox	0	112	94
	Stardust	0	112	96
	Millenium	0	114	88
	Template	0	113	95
	Loch Ness	0	113	93
	Strings Pad	0	112	51
	Wave 2001	0	112	95
	Harp Pad	0	112	88
	DX Pad	0	112	92
Organ	Pipe Organ	0	112	19
	Chapel Org.1	0	115	19
	Chapel Org.2	0	116	19
	Accordion1	0	112	21
	Small Accrd.	0	113	21
	Rotor Organ	0	112	18
	Jazz Organ 1	0	114	17
	Rock Organ	0	116	18
	Elec. Organ	0	113	16
	Organ Flutes	0	116	16
	Class. Organ	0	113	19
	Chapel Org.3	0	114	19
	Tango Accrd.	0	112	23
	Accordion2	0	114	21
	Tutti Accord	0	115	21
	Rotary Drive	0	115	18
	Jazz Organ 2	0	117	16
	Jazz Organ 3	0	115	16
	Perc. Organ	0	115	17
	Full Rocker	0	114	18
	Theatre Org.	0	114	16
	60’s Organ	0	113	17
Strings / Choir	Strings	0	118	48
	Orch.Str.1	0	115	48
	ClassicalStr	0	114	48
	Popular Str	0	116	48
	Vivaldi Str	0	116	49
	Violin	0	112	40
	Sweet Cello	0	113	42
	Choir	0	112	52
	Air Choir	0	112	54
	Pizzicato	0	112	45
	Orch.Str.2	0	117	48
	ChamberStr	0	113	48
	Strings Slow	0	113	49
	Str.Quartet	0	113	40
	Fiddle	0	112	110
	Cello	0	114	42
	Choir Oohs	0	112	53
	Choir Slow	0	113	52
	Harp	0	112	46
	OrchestraHit	0	112	55

Voice List

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Category	Voice Name	Voice #		
		MSB #	LSB #	Program Change #
Brass	SweetTrumpet	0	115	56
	Trombone	0	114	57
	MuteTrumpet1	0	113	59
	Soft Trumpet	0	114	56
	Brass Band	0	118	57
	BrassSection	0	112	61
	Mellow Brass	0	123	61
	BigBnd Brass	0	115	61
	Soft Brass	0	116	61
	Analog Brass	0	112	63
	Solo Trumpet	0	112	56
	Trb.Section	0	113	57
	MuteTrumpet2	0	112	59
	Flugel Horn	0	113	56
	Tuba	0	113	58
	Big Brass	0	114	61
	Bright Brass	0	117	61
	French Horn	0	112	60
	Ballroom Brs	0	114	59
	Synth Brass	0	112	62
Sax / Flute	Sweet Tenor	0	113	66
	Sweet Flute	0	115	73
	Sweet Clari.	0	113	71
	Sweet Alto	0	116	65
	Growl Sax	0	114	66
	Soprano Sax	0	112	64
	Pan Flute 1	0	113	75
	Modern Harp	0	113	22
	Sax Section	0	114	65
	WindEnsemble	0	113	73
	Breath Tenor	0	115	66
	Classical Fl	0	116	73
	Clarinet	0	112	71
	Breath Alto	0	115	65
	Baritone Sax	0	113	67
	Oboe	0	112	68
	Piccolo	0	113	72
	Blues Harm.	0	114	22
	Bassoon	0	113	70
	Whistle	0	112	78
	Tenor Sax	0	116	66
	Flute	0	112	73
	Alto Sax	0	112	65
	English Horn	0	112	69
	Recorder	0	113	74
	Harmonica	0	112	22
	Pan Flute 2	0	112	75
Bass	Acous.Bass 1	0	112	32
	Elec. Bass	0	113	33
	Finger Bass	0	114	33
	E. Bass Slap	0	112	33
	Pick Bass	0	112	34
	FretlessBass	0	112	35
	Slap Bass	0	112	36
	Synth Bass 1	0	112	38
	Analog Bass	0	113	39
	Bass&Cymbal	0	114	32
	Acous.Bass 2	0	113	32
	Bert's Bass	0	113	34

Category	Voice Name	Voice #		
		MSB #	LSB #	Program Change #
Bass	Synth Bass 2	0	112	39
	Hi Q Bass	0	114	38
	Synth Bass 3	0	113	38
Percussion	Vibes	0	112	11
	Marimba	0	112	12
	Music Box	0	113	10
	Steel Drums	0	112	114
	Celesta	0	113	8
	Jazz Vibes	0	113	11
	Xylophone	0	112	13
	Glockenspiel	0	113	9
	TubularBells	0	112	14
	Timpani	0	112	47
	Xylomarimba	0	113	12
	Dulcimer	0	112	15
	Kalimba	0	112	108
	Standard Kit	127	0	0
	Standard2Kit	127	0	1
	Hit Kit	127	0	4
	Room Kit	127	0	8
	Rock Kit	127	0	16
	Electro Kit	127	0	24
	Analog Kit	127	0	25
	Dance Kit	127	0	27
	Jazz Kit	127	0	32
	Brush Kit	127	0	40
	Classic Kit	127	0	48
	SFX1 Kit	126	0	0
	SFX2 Kit	126	0	1
Ensemble	1 Oct. Piano	0	113	3
	2 Oct. Piano	0	114	3
	Piano & Str	0	118	1
	Piano Heaven	0	114	100
	Piano&Choir	0	118	0
	Orchestral 1	0	117	49
	Orchestral 2	0	118	49
	Orchestral 3	0	118	68
	Orchestral 4	0	116	68
	Orchestral 5	0	117	68
	Baroque	0	118	6
	Flute&Mallet	0	118	73
	Guitar&Flute	0	118	24
	Guitar&Str	0	115	99
	TwelveString	0	114	99
	Hallelujah	0	113	53
	Evensong 1	0	118	53
	Evensong 2	0	118	52
	X'mas Organ	0	118	19
	Sunrise Pad	0	116	100
	Brass&Sax 1	0	118	65
	Brass&Sax 2	0	118	66
	Moon Sax 1	0	117	71
	Moon Sax 2	0	118	71
	Trump.&Clari	0	118	56
	Brass&Lyra	0	118	63
	Flute&Lyra	0	118	72
	ElectricJazz	0	116	26
	Galaxy Choir	0	117	100
	Heaven Stack	0	115	100

CVP-105/103

Category	Voice Name	Voice #		
		MSB #	LSB #	Program Change #
Piano	Grand Piano	0	112	0
	Bright Piano	0	112	1
	Mellow Piano	0	114	0
	Rock Piano	0	113	1
	Midi Grand	0	115	2
	Harpsichord1	0	112	6
	Harpsichord2	0	113	6
	Grand Harpsi	0	115	6
	Honky Tonk	0	112	3
	NewAge Piano	0	118	2
E.Piano	Stage EP 1	0	112	4
	Galaxy EP	0	118	5
	New Tines	0	113	5
	Funk EP	0	113	4
	DX EP Modern	0	115	5
	CP80	0	116	2
	Tremolo EP	0	118	4
	Hyper Tines	0	117	5
	Venus EP	0	116	5
	Clavi.	0	112	7
	Dream EP	0	114	5
	Stage EP 2	0	117	4
	Wah Clavi.	0	113	7
	DX treme	0	113	92
	Funky Clavi.	0	114	7
	Galaxian EP	0	113	100
	DX-EP & Str.	0	118	88
Guitar	Spanish Gtr.	0	113	24
	12Str.Guitar	0	115	25
	Solid Guitar	0	115	27
	Bright Clean	0	113	27
	Clean Guitar	0	112	27
	Jazz Guitar1	0	113	26
	Mute Guitar	0	112	28
	Banjo	0	112	105
	HawaiianGtr.	0	114	26
	Dist. Guitar	0	112	30
	Smooth Nylon	0	114	24
	Elec12string	0	126	27
	Folk Guitar1	0	116	25
	Jazz Guitar2	0	112	26
	OctaveGuitar	0	115	26
	Gut Guitar	0	112	24
	Folk Guitar2	0	112	25
	Pedal Steel	0	114	27
Synth	Golden Age	0	115	88
	Insomnia	0	113	94
	Wave 2010	0	114	95
	NewAge Pad	0	113	88
	Fire Wire	0	113	81
	Wire Lead	0	114	81
	Blaster	0	112	87

Category	Voice Name	Voice #		
		MSB #	LSB #	Program Change #
Synth	Square Lead	0	112	80
	Analogon	0	115	81
	Saw. Lead	0	112	81
	Cyber Pad	0	113	99
	Choir Pad	0	112	91
	Atmosphere	0	112	99
	Brass Pad	0	112	90
	Warm Pad	0	112	89
	Equinox	0	112	94
	Stardust	0	112	96
	Millenium	0	114	88
	Strings Pad	0	112	51
	Wave 2001	0	112	95
	Harp Pad	0	112	88
	DX Pad	0	112	92
Organ	Pipe Organ	0	112	19
	ChapelOrgan1	0	115	19
	ChapelOrgan2	0	116	19
	Accordion	0	112	21
	Tutti Accord	0	115	21
	Rotor Organ	0	112	18
	Jazz Organ 1	0	114	17
	Rock Organ	0	116	18
	Elec. Organ	0	113	16
	Jazz Organ 2	0	117	16
	Class. Organ	0	113	19
	ChapelOrgan3	0	114	19
	Tango Accrd.	0	112	23
	Jazz Organ 3	0	115	16
	Perc. Organ	0	115	17
	Theatre Org.	0	114	16
	60's Organ	0	113	17
Strings / Choir	OrchStrings1	0	115	48
	ClassicalStr	0	114	48
	Popular Str	0	116	48
	Vivaldi Str	0	116	49
	Chamber Str	0	113	48
	Violin	0	112	40
	Cello	0	114	42
	Choir	0	112	52
	Air Choir	0	112	54
	Pizzicato	0	112	45
	OrchStrings2	0	117	48
	Strings Slow	0	113	49
	Str.Quartet	0	113	40
	Fiddle	0	112	110
	Choir Oohs	0	112	53
	Choir Slow	0	113	52
	Harp	0	112	46
	OrchestraHit	0	112	55

CVP-105/103

Category	Voice Name	Voice #		
		MSB #	LSB #	Program Change #
Brass	SweetTrumpet	0	115	56
	Trombone	0	114	57
	MuteTrumpet1	0	113	59
	Soft Trumpet	0	114	56
	Brass Band	0	118	57
	BrassSection	0	112	61
	Mellow Brass	0	123	61
	Big Brass	0	114	61
	Analog Brass	0	112	63
	Synth Brass	0	112	62
	Solo Trumpet	0	112	56
	Trb.Section	0	113	57
	MuteTrumpet2	0	112	59
	Flugel Horn	0	113	56
	Tuba	0	113	58
	French Horn	0	112	60
	BallroomBrs	0	114	59
Sax / Flute	Breath Tenor	0	115	66
	Flute	0	112	73
	Clarinet	0	112	71
	Breath Alto	0	115	65
	Baritone Sax	0	113	67
	Soprano Sax	0	112	64
	Pan Flute 1	0	113	75
	Harmonica	0	112	22
	Sax Section	0	114	65
	WindEnsemble	0	113	73
	Tenor Sax	0	116	66
	Alto Sax	0	112	65
	Oboe	0	112	68
	Piccolo	0	113	72
	Bassoon	0	113	70
	Whistle	0	112	78
	English Horn	0	112	69
	Recorder	0	113	74
	Pan Flute 2	0	112	75
Bass	Acous.Bass	0	112	32
	Elec. Bass	0	113	33
	Finger Bass	0	114	33
	E. Bass Slap	0	112	33
	Pick Bass	0	112	34
	FretlessBass	0	112	35
	Slap Bass	0	112	36
	Synth Bass 1	0	112	38
	Analog Bass	0	113	39
	Bass&Cymbal	0	114	32
	Bert's Bass	0	113	34
	Synth Bass 2	0	112	39
	Hi Q Bass	0	114	38
	Synth Bass 3	0	113	38

Category	Voice Name	Voice #		
		MSB #	LSB #	Program Change #
Percussion	Vibes	0	112	11
	Marimba	0	112	12
	Music Box	0	113	10
	Steel Drums	0	112	114
	Celesta	0	113	8
	Jazz Vibes	0	113	11
	Xylophone	0	112	13
	Glockenspiel	0	113	9
	TubularBells	0	112	14
	Timpani	0	112	47
	Xylomarimba	0	113	12
	Dulcimer	0	112	15
	Kalimba	0	112	108
	Standard Kit	127	0	0
	Standard2Kit	127	0	1
	Room Kit	127	0	8
	Rock Kit	127	0	16
	Electro Kit	127	0	24
	Analog Kit	127	0	25
	Dance Kit	127	0	27
	Jazz Kit	127	0	32
	Brush Kit	127	0	40
	Classic Kit	127	0	48
	SFX1 Kit	126	0	0
	SFX2 Kit	126	0	1
Ensemble	1 Oct. Piano	0	113	3
	2 Oct. Piano	0	114	3
	Piano & Str	0	118	1
	Piano Heaven	0	114	100
	Piano&Choir	0	118	0
	Orchestral 1	0	117	49
	Orchestral 2	0	118	49
	Orchestral 3	0	118	68
	Orchestral 4	0	116	68
	Orchestral 5	0	117	68
	Baroque	0	118	6
	Flute&Mallet	0	118	73
	Guitar&Flute	0	118	24
	Guitar&Str	0	115	99
	TwelveString	0	114	99
	Hallelujah	0	113	53
	Evensong 1	0	118	53
	Evensong 2	0	118	52
	X'mas Organ	0	118	19
	Sunrise Pad	0	116	100
	Brass&Sax 1	0	118	65
	Brass&Sax 2	0	118	66
	Moonsax 1	0	117	71
	Moonsax 2	0	118	71
	Trump.&Clari	0	118	56
	Brass&Lyra	0	118	63
	Flute&Lyra	0	118	72
	ElectricJazz	0	116	26
	GalaxyChoir	0	117	100
	Heaven Stack	0	115	100

XG

Voice Name	Voice #		
	MSB #	LSB #	Program Change #
GrandPno	0	0	0
GrndPnoK	0	1	0
MelloGrP	0	18	0
PianoStr	0	40	0
Dream	0	41	0
BritePno	0	0	1
BritPnoK	0	1	1
El.Grand	0	0	2
ElGrPnoK	0	1	2
Det.CP80	0	32	2
LayerCP1	0	40	2
LayerCP2	0	41	2
HnkyTonk	0	0	3
HnkyTnkK	0	1	3
E.Piano1	0	0	4
El.Pno1K	0	1	4
MelloEP1	0	18	4
Chor.EP1	0	32	4
HardEl.P	0	40	4
VX El.P1	0	45	4
60sEl.P1	0	64	4
E.Piano2	0	0	5
El.Pno2K	0	1	5
Chor.EP2	0	32	5
DX Hard	0	33	5
DXLegend	0	34	5
DX Phase	0	40	5
DX+Analg	0	41	5
DXKotoEP	0	42	5
VX El.P2	0	45	5
Harpsi.	0	0	6
Harpsi.K	0	1	6
Harpsi.2	0	25	6
Harpsi.3	0	35	6
Clavi	0	0	7
Clavi K	0	1	7
ClaviWah	0	27	7
PulseClv	0	64	7
PierceCl	0	65	7
Celesta	0	0	8
Glocken	0	0	9
MusicBox	0	0	10
Orgel	0	64	10
Vibes	0	0	11
Vibes K	0	1	11
HardVibe	0	45	11
Marimba	0	0	12
MarimbaK	0	1	12
SineMrmb	0	64	12
Balimba	0	97	12
Log Drum	0	98	12
Xylophon	0	0	13
TubulBel	0	0	14
ChrchBel	0	96	14
Carillon	0	97	14
Dulcimer	0	0	15
Dulcimr2	0	35	15
Cimbalom	0	96	15
Santur	0	97	15
DrawOrgn	0	0	16

Voice Name	Voice #		
	MSB #	LSB #	Program Change #
DetDrwOr	0	32	16
60sDrOr1	0	33	16
60sDrOr2	0	34	16
70sDrOr1	0	35	16
DrawOrg2	0	36	16
60sDrOr3	0	37	16
EvenBar	0	38	16
16+2'2/3	0	40	16
Organ Ba	0	64	16
70sDrOr2	0	65	16
CheezOrg	0	66	16
DrawOrg3	0	67	16
PercOrgn	0	0	17
70sPcOr1	0	24	17
DetPrcOr	0	32	17
Lite Org	0	33	17
PercOrg2	0	37	17
RockOrgn	0	0	18
RotaryOr	0	64	18
SloRotar	0	65	18
FstRotar	0	66	18
ChrchOrg	0	0	19
ChurOrg3	0	32	19
ChurOrg2	0	35	19
NotreDam	0	40	19
OrgFlute	0	64	19
TrmOrgFl	0	65	19
ReedOrgn	0	0	20
Puff Org	0	40	20
Acordion	0	0	21
AccordIt	0	32	21
Harmnica	0	0	22
Harmo. 2	0	32	22
TangoAcd	0	0	23
TngoAcd2	0	64	23
NylonGtr	0	0	24
NylonGt2	0	16	24
NylonGt3	0	25	24
VelGtHrm	0	43	24
Ukulele	0	96	24
SteelGtr	0	0	25
SteelGt2	0	16	25
12StrGtr	0	35	25
Nyln&Stl	0	40	25
Stl&Body	0	41	25
Mandolin	0	96	25
Jazz Gtr	0	0	26
MelloGtr	0	18	26
Jazz Amp	0	32	26
CleanGtr	0	0	27
ChorusGt	0	32	27
Mute Gtr	0	0	28
FunkGtr1	0	40	28
MuteStlG	0	41	28
FunkGtr2	0	43	28
Jazz Man	0	45	28
Ovrdrive	0	0	29
Gt.Pinch	0	43	29
Dist.Gtr	0	0	30
FeedbkGt	0	40	30

Voice Name	Voice #		
	MSB #	LSB #	Program Change #
FeedbGt2	0	41	30
GtrHarmo	0	0	31
GtFeedbk	0	65	31
GtrHrmo2	0	66	31
Aco.Bass	0	0	32
JazzRthm	0	40	32
VXUprght	0	45	32
FngrBass	0	0	33
FingrDrk	0	18	33
FlangeBa	0	27	33
Ba&DstEG	0	40	33
FngrSlap	0	43	33
FngBass2	0	45	33
Mod.Bass	0	65	33
PickBass	0	0	34
MutePkBa	0	28	34
Fretless	0	0	35
Fretles2	0	32	35
Fretles3	0	33	35
Fretles4	0	34	35
SynFretl	0	96	35
SmthFrt1	0	97	35
SlapBas1	0	0	36
ResoSlap	0	27	36
PunchThm	0	32	36
SlapBas2	0	0	37
VeloSlap	0	43	37
SynBass1	0	0	38
SynBa1Dk	0	18	38
FastResB	0	20	38
AcidBass	0	24	38
Clv Bass	0	35	38
TechnoBa	0	40	38
Orbiter	0	64	38
Sqr.Bass	0	65	38
RubberBa	0	66	38
Hammer	0	96	38
SynBass2	0	0	39
MelloSBa	0	6	39
Seq Bass	0	12	39
ClkSynBa	0	18	39
SynBa2Dk	0	19	39
SmthSynB	0	32	39
ModulrBa	0	40	39
DX Bass	0	41	39
X WireBa	0	64	39
Violin	0	0	40
Slow Vln	0	8	40
Viola	0	0	41
Cello	0	0	42
Contrabs	0	0	43
Trem.Str	0	0	44
SlwTrStr	0	8	44
Susp. Str	0	40	44
Pizz.Str	0	0	45
Harp	0	0	46
YangChin	0	40	46
Timpani	0	0	47
Strings1	0	0	48
S.Strngs	0	3	48

XG

Voice Name	Voice #		
	MSB #	LSB #	Program Change #
Slow Str	0	8	48
Arco Str	0	24	48
60sStrng	0	35	48
Orchestr	0	40	48
Orchstr2	0	41	48
TremOrch	0	42	48
Velo.Str	0	45	48
Strings2	0	0	49
S.SlwStr	0	3	49
LegatoSt	0	8	49
Warm Str	0	40	49
Kingdom	0	41	49
70s Str	0	64	49
Strings3	0	65	49
Syn Str1	0	0	50
Reso Str	0	27	50
Syn Str4	0	64	50
Syn Str5	0	65	50
Syn Str2	0	0	51
ChoirAah	0	0	52
S.Choir	0	3	52
Ch.Aahs2	0	16	52
MelChoir	0	32	52
ChoirStr	0	40	52
VoiceOoh	0	0	53
SynVoice	0	0	54
SyVoice2	0	40	54
Choral	0	41	54
AnaVoice	0	64	54
Orch.Hit	0	0	55
OrchHit2	0	35	55
Impact	0	64	55
Trumpet	0	0	56
Trumpet2	0	16	56
BriteTrp	0	17	56
Warm Trp	0	32	56
Trombone	0	0	57
Trmbone2	0	18	57
Tuba	0	0	58
Tuba 2	0	16	58
Mute Trp	0	0	59
Fr.Horn	0	0	60
FrHrSolo	0	6	60
FrHorn 2	0	32	60
HornOrch	0	37	60
BrssSect	0	0	61
Tp&TbSec	0	35	61
BrssSec2	0	40	61
HiBrass	0	41	61
MelloBrs	0	42	61
SynBrss1	0	0	62
Quack Br	0	12	62
RezSynBr	0	20	62
PolyBrss	0	24	62
SynBrss3	0	27	62
JumpBrss	0	32	62
AnVelBr1	0	45	62
AnVelBr2	0	64	62
SynBrss2	0	0	63
Soft Brs	0	18	63
SynBrss4	0	40	63

Voice Name	Voice #		
	MSB #	LSB #	Program Change #
ChoirBrs	0	41	63
VelBrss2	0	45	63
AnaBrss2	0	64	63
SprnoSax	0	0	64
Alto Sax	0	0	65
Sax Sect	0	40	65
HyprAlto	0	43	65
TenorSax	0	0	66
BrthTnSx	0	40	66
SoftTenr	0	41	66
TnrSax 2	0	64	66
Bari.Sax	0	0	67
Oboe	0	0	68
Eng.Horn	0	0	69
Bassoon	0	0	70
Clarinet	0	0	71
Piccolo	0	0	72
Flute	0	0	73
Recorder	0	0	74
PanFlute	0	0	75
Bottle	0	0	76
Shakhchi	0	0	77
Whistle	0	0	78
Ocarina	0	0	79
SquareLd	0	0	80
SquarLd2	0	6	80
LMSquare	0	8	80
Hollow	0	18	80
Shroud	0	19	80
Mellow	0	64	80
SoloSine	0	65	80
SineLead	0	66	80
Saw Lead	0	0	81
Saw Ld 2	0	6	81
ThickSaw	0	8	81
Dyna Saw	0	18	81
Digi Saw	0	19	81
Big Lead	0	20	81
HeavySyn	0	24	81
WaspySyn	0	25	81
PulseSaw	0	40	81
Dr. Lead	0	41	81
VeloLead	0	45	81
Seq Ana.	0	96	81
CaliopLd	0	0	82
PureLead	0	65	82
Chiff Ld	0	0	83
Rubby	0	64	83
CharanLd	0	0	84
DistLead	0	64	84
WireLead	0	65	84
Voice Ld	0	0	85
SynthAah	0	24	85
Vox Lead	0	64	85
Fifth Ld	0	0	86
Big Five	0	35	86
Bass&Ld	0	0	87
Big&Low	0	16	87
Fat&Prky	0	64	87
Soft Wrl	0	65	87
NewAgePd	0	0	88

Voice Name	Voice #		
	MSB #	LSB #	Program Change #
Fantasy	0	64	88
Warm Pad	0	0	89
ThickPad	0	16	89
Soft Pad	0	17	89
Sine Pad	0	18	89
Horn Pad	0	64	89
RotarStr	0	65	89
PolySyPd	0	0	90
PolyPd80	0	64	90
ClickPad	0	65	90
Ana. Pad	0	66	90
SquarPad	0	67	90
ChoirPad	0	0	91
Heaven	0	64	91
Itopia	0	66	91
CC Pad	0	67	91
BowedPad	0	0	92
Glacier	0	64	92
GlassPad	0	65	92
MetalPad	0	0	93
Tine Pad	0	64	93
Pan Pad	0	65	93
Halo Pad	0	0	94
SweepPad	0	0	95
Shwimmer	0	20	95
Converge	0	27	95
PolarPad	0	64	95
Celstial	0	66	95
Rain	0	0	96
ClaviPad	0	45	96
HrmoRain	0	64	96
AfrcnWnd	0	65	96
Carib	0	66	96
SoundTrk	0	0	97
Prologue	0	27	97
Ancestrl	0	64	97
Crystal	0	0	98
SynDrCmp	0	12	98
Popcorn	0	14	98
TinyBell	0	18	98
RndGlock	0	35	98
GlockChi	0	40	98
ClearBel	0	41	98
ChorBell	0	42	98
SynMalet	0	64	98
SftCryst	0	65	98
LoudGlok	0	66	98
ChrstBel	0	67	98
VibeBell	0	68	98
DigiBell	0	69	98
AirBells	0	70	98
BellHarp	0	71	98
Gamelmba	0	72	98
Atmosphr	0	0	99
WarmAtms	0	18	99
HollwRls	0	19	99
Nylon EP	0	40	99
NylnHarp	0	64	99
Harp Vox	0	65	99
AtmosPad	0	66	99
Planet	0	67	99

XG

Voice Name	Voice #		
	MSB #	LSB #	Program Change #
Bright	0	0	100
FantaBel	0	64	100
Smokey	0	96	100
Goblins	0	0	101
GobSynth	0	64	101
Creeper	0	65	101
Ring Pad	0	66	101
Ritual	0	67	101
ToHeaven	0	68	101
Night	0	70	101
Glisten	0	71	101
BelChoir	0	96	101
Echoes	0	0	102
Echoes 2	0	8	102
Echo Pan	0	14	102
EchoBell	0	64	102
Big Pan	0	65	102
SynPiano	0	66	102
Creation	0	67	102
StarDust	0	68	102
Reso&Pan	0	69	102
Sci-Fi	0	0	103
Starz	0	64	103
Sitar	0	0	104
DetSitar	0	32	104
Sitar 2	0	35	104
Tambra	0	96	104
Tamboura	0	97	104
Banjo	0	0	105
MuteBnjo	0	28	105
Rabab	0	96	105
Gopichnt	0	97	105
Oud	0	98	105
Shamisen	0	0	106
Koto	0	0	107
Taisho-k	0	96	107
Kanoon	0	97	107
Kalimba	0	0	108
Bagpipe	0	0	109

Voice Name	Voice #		
	MSB #	LSB #	Program Change #
Fiddle	0	0	110
Shanai	0	0	111
Shanai 2	0	64	111
Pungi	0	96	111
Hichriki	0	97	111
TnklBell	0	0	112
Bonang	0	96	112
Altair	0	97	112
Gamelan	0	98	112
S.Gamlan	0	99	112
Rama Cym	0	100	112
AsianBel	0	101	112
Agogo	0	0	113
SteelDrm	0	0	114
GlasPerc	0	97	114
ThaiBell	0	98	114
WoodBlok	0	0	115
Castanet	0	96	115
TaikoDrm	0	0	116
Gr.Cassa	0	96	116
MelodTom	0	0	117
Mel Tom2	0	64	117
Real Tom	0	65	117
Rock Tom	0	66	117
Syn Drum	0	0	118
Ana Tom	0	64	118
ElecPerc	0	65	118
RevCymbl	0	0	119
FretNoiz	0	0	120
BrthNoiz	0	0	121
Seashore	0	0	122
Tweet	0	0	123
Telphone	0	0	124
Helicptr	0	0	125
Applause	0	0	126
Gunshot	0	0	127
CuttngNz	64	0	0
CttngNz2	64	0	1
Str Slap	64	0	3

Voice Name	Voice #		
	MSB #	LSB #	Program Change #
Fl.KClik	64	0	16
Shower	64	0	32
Thunder	64	0	33
Wind	64	0	34
Stream	64	0	35
Bubble	64	0	36
Feed	64	0	37
Dog	64	0	48
Horse	64	0	49
Tweet 2	64	0	50
Ghost	64	0	54
Maou	64	0	55
Tel.Dial	64	0	64
DoorSqek	64	0	65
DoorSlam	64	0	66
ScratchC	64	0	67
ScratchS	64	0	68
WindChim	64	0	69
Telphon2	64	0	70
CarElgnt	64	0	80
CarTSqel	64	0	81
Car Pass	64	0	82
CarCrash	64	0	83
Siren	64	0	84
Train	64	0	85
JetPlane	64	0	86
Starship	64	0	87
Burst	64	0	88
Coaster	64	0	89
Submarin	64	0	90
Laugh	64	0	96
Scream	64	0	97
Punch	64	0	98
Heart	64	0	99
Footstep	64	0	100
MchinGun	64	0	112
LaserGun	64	0	113
Xplosion	64	0	114
Firework	64	0	115

Demo Songs

SONG DEMO

	Title	Composer
Song 1	Klavier Konzert a moll op.16 (Piano Concert a minor op.16)	E.Grieg
Song 3	Beautiful Dreamer	S.C.Foster
Song 4	Annie Laurie	Traditional

VOICE DEMO

	Title	Composer
PIANO	Walzer op.70-1	F.Chopin
SYNTHESIZER	Bruyeres	C.A.Debussy
ORGAN	Choralvorspiele “Ich ruf’ zu dir, Herr Jesus Christ”	J.S.Bach
PERCUSSION	Air de Ballet	M.Moszkowski
XG	TREPAK from “Nutcracker Suite” op.71a	P.I.Tschaikovsky

- *Some of the demonstration pieces listed above are specially-arranged excerpts from the original compositions listed above. All other songs are original (©1999 Yamaha Corporation).*

Drum/key Assignment List

Bank Select MSB					127	127	127	127	127	127	127
Bank Select LSB					0	0	0	0	0	0	0
Program # (1-128)					1	2	4	9	17	25	26
Keyboard Note	MIDI Note #	MIDI Note	Key off	Alternate assign	Standard Kit	Standard 2 Kit	Hit Kit (CVP-109/107/700)	Room Kit	Rock Kit	Electro Kit	Analog Kit
C♯ 1	13	C♯ -1		3	Surdo Mute	Surdo Mute	Surdo Mute	Surdo Mute	Surdo Mute	Surdo Mute	Surdo Mute
D 1	14	D -1		3	Surdo Open	Surdo Open	Surdo Open	Surdo Open	Surdo Open	Surdo Open	Surdo Open
D♯ 1	15	D♯ -1			Hi Q	Hi Q	Hi Q	Hi Q	Hi Q	Hi Q	Hi Q
E 1	16	E -1			Whip Slap	Whip Slap	Whip Slap	Whip Slap	Whip Slap	Whip Slap	Whip Slap
F 1	17	F -1		4	Scratch H	Scratch H	Scratch H	Scratch H	Scratch H	Scratch H	Scratch H
F♯ 1	18	F♯ -1		4	Scratch L	Scratch L	Scratch L	Scratch L	Scratch L	Scratch L	Scratch L
G 1	19	G -1			Finger Snap	Finger Snap	Finger Snap	Finger Snap	Finger Snap	Finger Snap	Finger Snap
G♯ 1	20	G♯ -1			Click Noise	Click Noise	Click Noise	Click Noise	Click Noise	Click Noise	Click Noise
A 1	21	A -1			Mtrnm Click	Mtrnm Click	Mtrnm Click	Mtrnm Click	Mtrnm Click	Mtrnm Click	Mtrnm Click
A♯ 1	22	A♯ -1			Mtrnm Bell	Mtrnm Bell	Mtrnm Bell	Mtrnm Bell	Mtrnm Bell	Mtrnm Bell	Mtrnm Bell
B 1	23	B -1			Seq Click L	Seq Click L	Seq Click L	Seq Click L	Seq Click L	Seq Click L	Seq Click L
C 2	24	C 0			Seq Click H	Seq Click H	Seq Click H	Seq Click H	Seq Click H	Seq Click H	Seq Click H
C♯ 2	25	C♯ 0			Brush Tap	Brush Tap	Brush Tap	Brush Tap	Brush Tap	Brush Tap	Brush Tap
D 2	26	D 0	○		Brush Swirl	Brush Swirl	Brush Swirl	Brush Swirl	Brush Swirl	Brush Swirl	Brush Swirl
D♯ 2	27	D♯ 0			Brush Slap	Brush Slap	Brush Slap	Brush Slap	Brush Slap	Brush Slap	Brush Slap
E 2	28	E 0	○		BrushTapSwrl	BrushTapSwrl	BrushTapSwrl	BrushTapSwrl	BrushTapSwrl	ReversCymbal	ReversCymbal
F 2	29	F 0	○		Snare Roll	Snare Roll 2	Snare Roll	Snare Roll	Snare Roll	Snare Roll	Snare Roll
F♯ 2	30	F♯ 0			Castanet	Castanet	Castanet	Castanet	Castanet	Hi Q 2	Hi Q 2
G 2	31	G 0			Snare Soft	Snare Soft 2	Snare Electro	Snare Soft	Snare Noisy	SnrSnpyElctr	SnareNoisy 4
G♯ 2	32	G♯ 0			Sticks	Sticks	Sticks	Sticks	Sticks	Sticks	Sticks
A 2	33	A 0			Kick Soft	Kick Soft	Kick Tight L	Kick Soft	Kick Tight 2	Kick 3	Kick Tight 2
A♯ 2	34	A♯ 0			OpenRimShot	RimShotHShrt	Snare Pitched	OpenRimShot	OpenRimShot	OpenRimShot	OpenRimShot
B 2	35	B 0			Kick Tight	KickTghtShrt	Kick Wet	Kick Tight	Kick 2	Kick Gate	KickAnlgShrt
C 3	36	C 1			Kick	Kick Short	Kick Tight H	Kick	Kick Gate	KckGateHeavy	Kick Analog
C♯ 3	37	C♯ 1			Side Stick	Side Stick	Stick Ambient	Side Stick	Side Stick	Side Stick	SideStickAn
D 3	38	D 1			Snare	Snare Short	Snare Ambient	Snare Snappy	Snare Rock	SnareNoisy 2	SnareAnalog
D♯ 3	39	D♯ 1			Hand Clap	Hand Clap	Hand Clap	Hand Clap	Hand Clap	Hand Clap	Hand Clap
E 3	40	E 1			Snare Tight	SnareTight H	Snare Tight 2	SnrTightSnpy	SnareRockRim	SnareNoisy 3	SnareAnalog2
F 3	41	F 1			Floor Tom L	Floor Tom L	Hybrid Tom 1	Tom Room 1	Tom Rock 1	TomElectro 1	Tom Analog 1
F♯ 3	42	F♯ 1		1	Hi-HatClosed	Hi-HatClosed	Hi-Hat Closed Light	Hi-HatClosed	Hi-HatClosed	Hi-HatClosed	HatCloseAnlg
G 3	43	G 1			Floor Tom H	Floor Tom H	Hybrid Tom 2	Tom Room 2	Tom Rock 2	TomElectro 2	Tom Analog 2
G♯ 3	44	G♯ 1		1	Hi-Hat Pedal	Hi-Hat Pedal	Hi-Hat Pedal Light	Hi-Hat Pedal	Hi-Hat Pedal	Hi-Hat Pedal	HatCloseAn 2
A 3	45	A 1			Low Tom	Low Tom	Hybrid Tom 3	Tom Room 3	Tom Rock 3	TomElectro 3	Tom Analog 3
A♯ 3	46	A♯ 1		1	Hi-Hat Open	Hi-Hat Open	Hi-Hat Open Light	Hi-Hat Open	Hi-Hat Open	Hi-Hat Open	HatOpen Anlg
B 3	47	B 1			Mid Tom L	Mid Tom L	Hybrid Tom 4	Tom Room 4	Tom Rock 4	TomElectro 4	Tom Analog 4
C 4	48	C 2			Mid Tom H	Mid Tom H	Hybrid Tom 5	Tom Room 5	Tom Rock 5	TomElectro 5	Tom Analog 5
C♯ 4	49	C♯ 2			CrashCymbal1	CrashCymbal1	CrashCymbal1	CrashCymbal1	CrashCymbal1	CrashCymbal1	Crash Analog
D 4	50	D 2			High Tom	High Tom	Hybrid Tom 6	Tom Room 6	Tom Rock 6	TomElectro 6	Tom Analog 6
D♯ 4	51	D♯ 2			RideCymbal 1	RideCymbal 1	RideCymbal 1	RideCymbal 1	RideCymbal 1	RideCymbal 1	RideCymbal 1
E 4	52	E 2			Chinese Cym	Chinese Cym	Chinese Cym	Chinese Cym	Chinese Cym	Chinese Cym	Chinese Cym
F 4	53	F 2			Ride Cym Cup	Ride Cym Cup	Ride Cym Cup	Ride Cym Cup	Ride Cym Cup	Ride Cym Cup	Ride Cym Cup
F♯ 4	54	F♯ 2			Tambourine	Tambourine	Tambourine Light	Tambourine	Tambourine	Tambourine	Tambourine
G 4	55	G 2			SplashCymbal	SplashCymbal	SplashCymbal	SplashCymbal	SplashCymbal	SplashCymbal	SplashCymbal
G♯ 4	56	G♯ 2			Cowbell	Cowbell	Cowbell	Cowbell	Cowbell	Cowbell	Cowbell Anlg
A 4	57	A 2			CrashCymbal2	CrashCymbal2	CrashCymbal2	CrashCymbal2	CrashCymbal2	CrashCymbal2	CrashCymbal2
A♯ 4	58	A♯ 2			Vibraslap	Vibraslap	Vibraslap	Vibraslap	Vibraslap	Vibraslap	Vibraslap
B 4	59	B 2			RideCymbal 2	RideCymbal 2	RideCymbal 2	RideCymbal 2	RideCymbal 2	RideCymbal 2	RideCymbal 2
C 5	60	C 3			Bongo H	Bongo H	Bongo H	Bongo H	Bongo H	Bongo H	Bongo H
C♯ 5	61	C♯ 3			Bongo L	Bongo L	Bongo L	Bongo L	Bongo L	Bongo L	Bongo L
D 5	62	D 3			Conga H Mute	Conga H Mute	Conga H Mute	Conga H Mute	Conga H Mute	Conga H Mute	Conga Anlg H
D♯ 5	63	D♯ 3			Conga H Open	Conga H Open	Conga H Open	Conga H Open	Conga H Open	Conga H Open	Conga Anlg M
E 5	64	E 3			Conga L	Conga L	Conga L	Conga L	Conga L	Conga L	Conga Anlg L
F 5	65	F 3			Timbale H	Timbale H	Timbale H	Timbale H	Timbale H	Timbale H	Timbale H
F♯ 5	66	F♯ 3			Timbale L	Timbale L	Timbale L	Timbale L	Timbale L	Timbale L	Timbale L
G 5	67	G 3			Agogo H	Agogo H	Agogo H	Agogo H	Agogo H	Agogo H	Agogo H
G♯ 5	68	G♯ 3			Agogo L	Agogo L	Agogo L	Agogo L	Agogo L	Agogo L	Agogo L
A 5	69	A 3			Cabasa	Cabasa	Cabasa	Cabasa	Cabasa	Cabasa	Cabasa
A♯ 5	70	A♯ 3			Maracas	Maracas	Maracas	Maracas	Maracas	Maracas	Maracas 2
B 5	71	B 3	○		SambaWhistlH	SambaWhistlH	SambaWhistlH	SambaWhistlH	SambaWhistlH	SambaWhistlH	SambaWhistlH
C 6	72	C 4	○		SambaWhistlL	SambaWhistlL	SambaWhistlL	SambaWhistlL	SambaWhistlL	SambaWhistlL	SambaWhistlL
C♯ 6	73	C♯ 4			Guiro Short	Guiro Short	Guiro Short	Guiro Short	Guiro Short	Guiro Short	Guiro Short
D 6	74	D 4	○		Guiro Long	Guiro Long	Guiro Long	Guiro Long	Guiro Long	Guiro Long	Guiro Long
D♯ 6	75	D♯ 4			Claves	Claves	Claves	Claves	Claves	Claves	Claves 2
E 6	76	E 4			Wood Block H	Wood Block H	Wood Block H	Wood Block H	Wood Block H	Wood Block H	Wood Block H
F 6	77	F 4			Wood Block L	Wood Block L	Wood Block L	Wood Block L	Wood Block L	Wood Block L	Wood Block L
F♯ 6	78	F♯ 4			Cuica Mute	Cuica Mute	Cuica Mute	Cuica Mute	Cuica Mute	Scratch H 2	Scratch H 2
G 6	79	G 4			Cuica Open	Cuica Open	Cuica Open	Cuica Open	Cuica Open	Scratch L 2	Scratch L 3
G♯ 6	80	G♯ 4		2	TriangleMute	TriangleMute	TriangleMute	TriangleMute	TriangleMute	TriangleMute	TriangleMute
A 6	81	A 4		2	TriangleOpen	TriangleOpen	TriangleOpen	TriangleOpen	TriangleOpen	TriangleOpen	TriangleOpen
A♯ 6	82	A♯ 4			Shaker	Shaker	Shaker	Shaker	Shaker	Shaker	Shaker
B 6	83	B 4			Jingle Bells	Jingle Bells	Jingle Bells	Jingle Bells	Jingle Bells	Jingle Bells	Jingle Bells
C 7	84	C 5			Bell Tree	Bell Tree	Bell Tree	Bell Tree	Bell Tree	Bell Tree	Bell Tree
–	85	C♯ 5									
–	86	D 5									
–	87	D♯ 5									
–	88	E 5									
–	89	F 5									
–	90	F♯ 5									
–	91	G 5									

- *Key Off: Keys marked "○" stop sounding the instant they are released.*
- *Alternate Assign: Playing any instrument within a numbered group will immediately stop the sound of any other instrument in the same group of the same number.*

Keyboard Note	MIDI Note #	MIDI Note	Key off	Alternate assign	Dance Kit	Jazz Kit	Brush Kit	Symphony Kit	SFX Kit 1	SFX Kit 2
Bank Select MSB					127	127	127	127	126	126
Bank Select LSB					0	0	0	0	0	0
Program # (1-128)					28	33	41	49	1	2
C♯ 1	13	C♯ -1		3	Surdo Mute	Surdo Mute	Surdo Mute	Surdo Mute		
D 1	14	D -1		3	Surdo Open	Surdo Open	Surdo Open	Surdo Open		
D♯ 1	15	D♯ -1			Hi Q	Hi Q	Hi Q	Hi Q		
E 1	16	E -1			Whip Slap	Whip Slap	Whip Slap	Whip Slap		
F 1	17	F -1		4	Scratch H	Scratch H	Scratch H	Scratch H		
F♯ 1	18	F♯ -1		4	Scratch L	Scratch L	Scratch L	Scratch L		
G 1	19	G -1			Finger Snap	Finger Snap	Finger Snap	Finger Snap		
G♯ 1	20	G♯ -1			Click Noise	Click Noise	Click Noise	Click Noise		
A 1	21	A -1			Mtrnm Click	Mtrnm Click	Mtrnm Click	Mtrnm Click		
A♯ 1	22	A♯ -1			Mtrnm Bell	Mtrnm Bell	Mtrnm Bell	Mtrnm Bell		
B 1	23	B -1			Seq Click L	Seq Click L	Seq Click L	Seq Click L		
C 2	24	C 0			Seq Click H	Seq Click H	Seq Click H	Seq Click H		
C♯ 2	25	C♯ 0			Brush Tap	Brush Tap	Brush Tap	Brush Tap		
D 2	26	D 0	○		Brush Swirl	Brush Swirl	Brush Swirl	Brush Swirl		
D♯ 2	27	D♯ 0			Brush Slap	Brush Slap	Brush Slap	Brush Slap		
E 2	28	E 0	○		ReversCymbal	BrushTapSwrl	BrushTapSwrl	BrushTapSwrl		
F 2	29	F 0	○		Snare Roll	Snare Roll	Snare Roll	Snare Roll		
F♯ 2	30	F♯ 0			Hi Q 2	Castanet	Castanet	Castanet		
G 2	31	G 0			SnareTechno3	Snare Soft	Brush Slap 2	Brush Slap 2		
G♯ 2	32	G♯ 0			Sticks	Sticks	Sticks	Sticks		
A 2	33	A 0			KickTechno Q	Kick Soft	Kick Soft	Kick Soft 2		
A♯ 2	34	A♯ 0			Rim Gate	OpenRimShot	OpenRimShot	OpenRimShot		
B 2	35	B 0			KickTechno L	Kick Tight	Kick Tight	Gran Cassa		
C 3	36	C 1			KickTechno 2	Kick Jazz	Kick Small	GranCassa Mu	CuttingNoiz	Phone Call
C♯ 3	37	C♯ 1			SideStickAn	Side Stick	Side Stick	Side Stick	CuttingNoiz2	Door Squeak
D 3	38	D 1			Snare Clap	Snare	Brush Slap 3	Band Snare		Door Slam
D♯ 3	39	D♯ 1			Hand Clap	Hand Clap	Hand Clap	Hand Clap	String Slap	Scratch Cut
E 3	40	E 1			Snare Dry 2	Snare Tight	Brush Tap 2	Band Snare 2		Scratch H 3
F 3	41	F 1			Tom Analog 1	Tom Jazz 1	Tom Brush 1	Tom Jazz 1		Wind Chime
F♯ 3	42	F♯ 1		1	HiHatClose 3	Hi-HatClosed	Hi-HatClosed	Hi-HatClosed		Telephone 2
G 3	43	G 1			Tom Analog 2	Tom Jazz 2	Tom Brush 2	Tom Jazz 2		
G♯ 3	44	G♯ 1		1	HatCloseAn 2	Hi-Hat Pedal	Hi-Hat Pedal	Hi-Hat Pedal		
A 3	45	A 1			Tom Analog 3	Tom Jazz 3	Tom Brush 3	Tom Jazz 3		
A♯ 3	46	A♯ 1		1	HiHat Open 3	Hi-Hat Open	Hi-Hat Open	Hi-Hat Open		
B 3	47	B 1			Tom Analog 4	Tom Jazz 4	Tom Brush 4	Tom Jazz 4		
C 4	48	C 2			Tom Analog 5	Tom Jazz 5	Tom Brush 5	Tom Jazz 5		
C♯ 4	49	C♯ 2			Crash Analog	CrashCymbal1	CrashCymbal1	Hand Cymbal		
D 4	50	D 2			Tom Analog 6	Tom Jazz 6	Tom Brush 6	Tom Jazz 6		
D♯ 4	51	D♯ 2			RideCymbal 1	RideCymbal 1	RideCymbal 1	HandCymShort		
E 4	52	E 2			Chinese Cym	Chinese Cym	Chinese Cym	Chinese Cym	Fl.Key Click	Ignition
F 4	53	F 2			Ride Cym Cup	Ride Cym Cup	Ride Cym Cup	Ride Cym Cup		Squeal
F♯ 4	54	F♯ 2			Tambourine	Tambourine	Tambourine	Tambourine		Exhaust
G 4	55	G 2			SplashCymbal	SplashCymbal	SplashCymbal	SplashCymbal		Crash
G♯ 4	56	G♯ 2			Cowbell Anlg	Cowbell	Cowbell	Cowbell		Siren
A 4	57	A 2			CrashCymbal2	CrashCymbal2	CrashCymbal2	HandCymbal 2		Train
A♯ 4	58	A♯ 2			Vibraslap	Vibraslap	Vibraslap	Vibraslap		Jet Plane
B 4	59	B 2			RideCymbal 2	RideCymbal 2	RideCymbal 2	HandCym2Shrt		Starship
C 5	60	C 3			Bongo H	Bongo H	Bongo H	Bongo H		Burst
C♯ 5	61	C♯ 3			Bongo L	Bongo L	Bongo L	Bongo L		Coaster
D 5	62	D 3			Conga Anlg H	Conga H Mute	Conga H Mute	Conga H Mute		Submarine
D♯ 5	63	D♯ 3			Conga Anlg M	Conga H Open	Conga H Open	Conga H Open		
E 5	64	E 3			Conga Anlg L	Conga L	Conga L	Conga L		
F 5	65	F 3			Timbale H	Timbale H	Timbale H	Timbale H		
F♯ 5	66	F♯ 3			Timbale L	Timbale L	Timbale L	Timbale L		
G 5	67	G 3			Agogo H	Agogo H	Agogo H	Agogo H		
G♯ 5	68	G♯ 3			Agogo L	Agogo L	Agogo L	Agogo L	Shower	Laugh
A 5	69	A 3			Cabasa	Cabasa	Cabasa	Cabasa	Thunder	Scream
A♯ 5	70	A♯ 3			Maracas 2	Maracas	Maracas	Maracas	Wind	Punch
B 5	71	B 3	○		SambaWhistlH	SambaWhistlH	SambaWhistlH	SambaWhistlH	Stream	Heartbeat
C 6	72	C 4	○		SambaWhistlL	SambaWhistlL	SambaWhistlL	SambaWhistlL	Bubble	Footsteps
C♯ 6	73	C♯ 4			Guiro Short	Guiro Short	Guiro Short	Guiro Short	Feed	
D 6	74	D 4	○		Guiro Long	Guiro Long	Guiro Long	Guiro Long		
D♯ 6	75	D♯ 4			Claves 2	Claves	Claves	Claves		
E 6	76	E 4			Wood Block H	Wood Block H	Wood Block H	Wood Block H		
F 6	77	F 4			Wood Block L	Wood Block L	Wood Block L	Wood Block L		
F♯ 6	78	F♯ 4			Scratch H 2	Cuica Mute	Cuica Mute	Cuica Mute		
G 6	79	G 4			Scratch L 3	Cuica Open	Cuica Open	Cuica Open		
G♯ 6	80	G♯ 4		2	TriangleMute	TriangleMute	TriangleMute	TriangleMute		
A 6	81	A 4		2	TriangleOpen	TriangleOpen	TriangleOpen	TriangleOpen		
A♯ 6	82	A♯ 4			Shaker	Shaker	Shaker	Shaker		
B 6	83	B 4			Jingle Bells	Jingle Bells	Jingle Bells	Jingle Bells		
C 7	84	C 5			Bell Tree	Bell Tree	Bell Tree	Bell Tree	Dog	Machine Gun
–	85	C♯ 5							Horse	Laser Gun
–	86	D 5							Bird Tweet 2	Explosion
–	87	D♯ 5								Firework
–	88	E 5								
–	89	F 5								
–	90	F♯ 5							Ghost	
–	91	G 5							Maou	

Style List

Category	Style Name
8 BEAT	8 Beat 1
	8 Beat 2
	8Bt Adria
	8Bt Pop 1
	8Bt Pop 2
	British Pop
	8 Beat Rock ◆ ●
	8 Beat Soft
	8Beat Ballad
	Light Pop
16 BEAT	16 Beat 1
	16 Beat 2
	16 Beat 3
	16 Beat 4
	16 Beat 5
	Soft Fusion
	Groundbeat ◆ ●
	Hip Hop Pop
	16Bt Funk
	Funky Pop
	Funky Dance
	80's Fusion
	Jazz Rock
	Funk ◆ ●
	FusionShfl. ●
	16 Beat 6
BALLAD	16-Ballad 1
	16-Ballad 2
	Piano Ballad
	Rock Ballad
	U.S. Ballad
	Slow Rock 1
	Slow Rock 2
	Slow Ballad
	Analog Pop ●
	Modern 6/8
	Pop Ballad 1
	Pop Ballad 2
	Cool Night
	GuitarBallad
	Organ Ballad
	Pop Ballad 3
	Pop Ballad 4 ◆ ●
	Blues Ballad ■ ◆ ●
	Epic Ballad
	Pop Waltz

Category	Style Name
DANCE	Clubdance
	Techno
	Entrance
	Eurobeat
	Trance ◆ ●
	70's Disco 1 *1
	80's Disco ◆ ●
	90's Disco
	Disco Soul
	Cool Dance
	Miami Pop
	Disco Tropic
	Disco Hands
	Electro Pop ●
	70's Disco 2 ◆ ●
ROCK/R&B	Rock 1 *2
	Hard Rock
	R & Roll 1 *3
	Rock Shuffle
	Gospel Shffl
	R & B 1
	Twist 1 *4
	Motown
	Soul ■ ◆ ●
	4/4 Blues
	Rock 2 ●
	8 Beat Heat
	R & Roll 2 ◆ ●
	Soul Shuffle
	Pop Shuffle
	R & B 2
	Twist 2 ■ ◆ ●
	6/8 Blues
	Blues Rock ■ ◆ ●
	6/8 Rock
SWING/JAZZ	Swing 1 *5
	Big Band 1
	BigBand Bld
	Jazz Ballad
	Jazz Trio
	Boogie 1 *6
	Dixieland 1
	BBand Boogie ●
	Gypsy Swing ●
	Bebop
	Swing 2 ●

Category	Style Name
SWING/JAZZ	Big Band 2
	Big Band 3 ■ ◆ ●
	Jazz Club 1 ■ ◆ ●
	Jazz Club 2 ■ ◆ ●
	Boogie 2 ■ ◆ ●
	Dixieland 2
	Swing Ballad ■ ◆ ●
	Jazz Waltz 1
	Jazz Waltz 2
LATIN	Samba Rio
	Bossa Nova 1 *7
	Bossa Nova 2 ●
	Reggae ■ ◆ ●
	Swing Reggae
	GuitarRhumba
	Guitar Bossa
	Salsa
	Mambo
	Pop Samba ◆ ●
	Jazz Samba ●
	Pop Bossa 1 *8
	Pop Bossa 2 ◆ ●
	Spanish Paso
	Pop Reggae
	Pop Rhumba ◆ ●
	Pop Cha Cha ◆ ●
COUNTRY	Country Rock
	Country 8Bt
	Country Pop
	CntryShuffle
	Cntry Swing
	Bluegrass
	Cntry Ballad
	Two Step
	CowboyBoogie ●
	Hoedown
	CountryWaltz
	Folk
BALLROOM	Vienna Waltz
	Slow Waltz
	Slow Fox
	Quickstep 1
	Tango
	Cha Cha
	Samba
	Rhumba
	Pasodoble
	Jive
	Orch.Waltz
	Beguine
	Foxtrot
	Quickstep 2

Category	Style Name
TRAD./ WALTZ	U.S. March
	German March
	6/8 March 1
	Showtune
	Polka Pop
	Ober Polka
	Oberkrain.W.
	Tarantella
	Musette
	Guitar Waltz
	6/8 March 2
	Enka 1
	Enka 2
PIANIST	Stride 1
	Stride 2
	Swing 1
	Swing 2
	Jazz Ballad
	Blues 1
	Blues 2
	BoogieWoogie
	Jazz Waltz
	Arpeggio 1
	8Bt Ballad 1
	8Bt Ballad 2
	8 Beat
	Rock'n' Roll
	Slow Rock
	2Beat Swing
	Ragtime 1
	Ragtime 2
	March 1
	6/8 March
	4 Stroke
	March 2
	Musical
	Traditional1
	Traditional2
	Traditional3
	Arpeggio 2
	Arpeggio 3
	Waltz
	Slow Waltz
	Bossa Nova
	Samba
	Rhumba
	Cha Cha
	Beguine

- *Styles marked with a ■ are not available on the CVP-107/700.*
- *Styles marked with a ◆ are not available on the CVP-105.*
- *Styles marked with a ● are not available on the CVP-103.*

**1 "70's Disco" on the CVP-105/103.*
**2 "Rock" on the CVP-103.*
**3 "R & Roll" on the CVP-105/103.*
**4 "Twist" on the CVP-107/105/103/700.*
**5 "Swing" on the CVP-103.*
**6 "Boogie" on the CVP-107/105/103/700.*
**7 "Bossa Nova" on the CVP-103.*
**8 "Pop Bossa" on the CVP-105/103.*

Vocal Harmony Type List (CVP-109/107/700)

Display Name	Harmony Type	Harmony Mode
Std:Duet	Standard:Duet	Chordal/Vocoder
Girl:Duet	Girl:Duet	Chordal/Vocoder
Lisa&Tina	Lisa and Tina	Chordal/Vocoder
Singer	Singer	Chordal/Vocoder
Dream Girls	Dream Girls	Chordal/Vocoder
MenChoir	Men Choir	Chordal/Vocoder
WomenChoir	Women Choir	Chordal/Vocoder
ClosedChoir	Closed Choir	Chordal/Vocoder
MixedChoir	Mixed Choir	Chordal/Vocoder
CountryMen	Country Men	Chordal/Vocoder
CntryGirls	Country Girls	Chordal/Vocoder
Barbershop	Barbershop	Chordal/Vocoder
MenCho:Jazz	MenChoir:Jazz	Chordal/Vocoder
WomenCho:J	WomenCho:Jazz	Chordal/Vocoder
CloseCho:J	ClosedCho:Jazz	Chordal/Vocoder
MixedCho:J	MixedCho:Jazz	Chordal/Vocoder
MenCho:Dia	MenCho:Diatonic	Chordal/Vocoder
Girl:Diatnc	Girl:Diatonic	Chordal/Vocoder
ACapellBoy	A Capella Boy	Chordal/Vocoder
ACapellaMix	A Capella Mix	Chordal/Vocoder
ACapellaDia	A Capella Dia	Chordal/Vocoder

Display Name	Harmony Type	Harmony Mode
Falset:Duet	Falsetto:Duet	Chordal/Vocoder
Falsett:Trio	Falsetto:Trio	Chordal/Vocoder
Falsetto:Dia	Falsetto:Dia	Chordal/Vocoder
Falset:Jazz	Falsetto:Jazz	Chordal/Vocoder
FalACapella	Fal A Capella	Chordal/Vocoder
UnisonLow:2	Unison Low:2	Chordal/Vocoder
UnisonHigh:2	Unison High:2	Chordal/Vocoder
UnisonLow:3	Unison Low:3	Chordal/Vocoder
UnisonHigh:3	Unison High:3	Chordal/Vocoder
XG	XG	Chordal/Vocoder
Karaok:Duet	Karaoke:Duet	Chordal/Vocoder
Karaok:Trio	Karaoke:Trio	Chordal/Vocoder
KaraokGirl	Karaoke:Girl	Chordal/Vocoder
KaraokPich	Karaoke:Pitch	Chordal/Vocoder
SingBass	Sing the Bass	Chromatic
SpdyMouse	Speedy Mouse	Chromatic
ChromatXG	ChromaticXG	Chromatic
DetuneXG	DetuneXG	Detune
Voice&Inst	Voice & Inst	Chromatic
VoiceToInst	Voice to Inst	Chromatic
Thru	Thru	---

Note: Vocal harmony types that have "Chordal/Vocoder" in the Harmony Mode column can be used in either Chordal or Vocoder mode.

Parameter Chart

Group	Contents	Default	V. Harmony Memory	One Touch Setting	Music Database	Set Up Memory	Registration Freeze Group	All Set Up	Backup Group	Recall Group
VOICE	RIGHT1 VOICE	Grand Piano	—	○	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	RIGHT1 OCTAVE SHIFT	0	—	○	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	RIGHT1 PAN	Center	—	○	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	RIGHT1 VOLUME	127	—	○	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	Selected voice in each VOICE SELECT page	Top voice	—	—	—	—	—	○	VOICE SETTING	VOICE SETTING
	HARMONY ON/OFF	OFF	—	○	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	HARMONY TYPE	Depends on voice selection.	—	○	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	HARMONY VOLUME	Depends on voice selection.	—	○	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	HARMONY SPEED	Depends on voice selection.	—	○	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
DUAL	DUAL ON/OFF	OFF	—	○	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	RIGHT2 VOICE	Strings Slow	—	○	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	RIGHT2 OCTAVE SHIFT	0	—	○	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	DUAL DETUNE DEPTH	5	—	○	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	RIGHT2 PAN	Center	—	○	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	RIGHT2 VOLUME	127	—	○	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
SPLIT	SPLIT ON/OFF	OFF	—	—	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	LEFT VOICE	Acous.Bass 1	—	—	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	LEFT OCTAVE SHIFT	+1	—	—	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	SPLIT POINT	F#2	—	—	—	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	LEFT PAN	Center	—	—	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	LEFT VOLUME	127	—	—	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	PEDAL RANGE	RIGHT	—	—	—	○	PEDAL	○	PEDAL	PEDAL
ORGAN FLUTES (109/107/700) [1]	ORGAN FLUTES VOICE	JAZZ ORGAN	—	—	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	FOOTAGE (16', 8', 5+1/3', 4', 2+2/3', 2', 1+1/3', 1')	Depends on voice selection.	—	—	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	ATTACK (4', 2+2/3', 2', LENGTH, RESPONSE)	Depends on voice selection.	—	—	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	ATTACK MODE (EACH/FIRST)	Depends on voice selection.	—	—	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
REVERB	REVERB ON/OFF	Depends on voice selection.	—	○	○	○	REV/CHO/EFF	○	REV/CHO/EFF	REV/CHO/EFF
	REVERB TYPE	Depends on style (voice) selection.	—	—	○	○	REV/CHO/EFF	○	REV/CHO/EFF	REV/CHO/EFF
	Natural Reverb Type (109)	Depends on style (voice) selection.	—	○	○	○	REV/CHO/EFF	○	REV/CHO/EFF	REV/CHO/EFF
	Reverb System (RIGHT1, RIGHT2, LEFT) (109)	Depends on voice selection.	—	○	○	○	REV/CHO/EFF	○	REV/CHO/EFF	REV/CHO/EFF
	REVERB TOTAL DEPTH	64	—	—	○	○	REV/CHO/EFF	○	REV/CHO/EFF	REV/CHO/EFF
	REVERB PART DEPTH (RHYTHM, ACMP)	64	—	—	○	○	REV/CHO/EFF	○	REV/CHO/EFF	REV/CHO/EFF
	REVERB PART DEPTH (LEFT, RIGHT1, RIGHT2)	Depends on voice selection.	—	○	○	○	REV/CHO/EFF	○	REV/CHO/EFF	REV/CHO/EFF
EFFECT	EFFECT ON/OFF	Depends on voice selection.	—	○	○	○	REV/CHO/EFF	○	REV/CHO/EFF	REV/CHO/EFF
	EFFECT TYPE (RIGHT1, RIGHT2, LEFT) (105/103)	Depends on voice selection.	—	○	○	○	REV/CHO/EFF	○	REV/CHO/EFF	REV/CHO/EFF
	EFFECT1 TYPE (109/107/700)	Depends on voice selection.	—	○	○	○	REV/CHO/EFF	○	REV/CHO/EFF	REV/CHO/EFF
	EFFECT2 TYPE (109/107/700)	Depends on voice selection.	—	○	○	○	REV/CHO/EFF	○	REV/CHO/EFF	REV/CHO/EFF
	EFFECT DEPTH (105/103)	Depends on voice selection.	—	○	○	○	REV/CHO/EFF	○	REV/CHO/EFF	REV/CHO/EFF
	EFFECT1 DEPTH (109/107/700)	Depends on voice selection.	—	○	○	○	REV/CHO/EFF	○	REV/CHO/EFF	REV/CHO/EFF
	EFFECT2 DEPTH (109/107/700)	Depends on voice selection.	—	○	○	○	REV/CHO/EFF	○	REV/CHO/EFF	REV/CHO/EFF
	EFFECT VARIATION (105/103)	Depends on voice selection.	—	○	○	○	REV/CHO/EFF	○	REV/CHO/EFF	REV/CHO/EFF
	EFFECT1 VARIATION (109/107/700)	Depends on voice selection.	—	○	○	○	REV/CHO/EFF	○	REV/CHO/EFF	REV/CHO/EFF
	EFFECT2 VARIATION (109/107/700)	Depends on voice selection.	—	○	○	○	REV/CHO/EFF	○	REV/CHO/EFF	REV/CHO/EFF
	EFFECT1 PART (109/107/700)	RIGHT 1	—	○	○	○	REV/CHO/EFF	○	REV/CHO/EFF	REV/CHO/EFF
	EFFECT2 PART (109/107/700)	RIGHT 2	—	○	○	○	REV/CHO/EFF	○	REV/CHO/EFF	REV/CHO/EFF
CHORUS	CHORUS ON/OFF (109/107/105/700)	Depends on voice selection.	—	○	○	○	REV/CHO/EFF	○	REV/CHO/EFF	REV/CHO/EFF
	CHORUS TYPE	Depends on style selection.	—	—	○	○	REV/CHO/EFF	○	REV/CHO/EFF	REV/CHO/EFF
	CHORUS DEPTH (RIGHT1, RIGHT2, LEFT)	Depends on voice selection.	—	○	○	○	REV/CHO/EFF	○	REV/CHO/EFF	REV/CHO/EFF
EQUALIZER [2] (109/107/700)	EQUALIZER TYPE	STANDARD	—	—	—	—	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	EQUALIZER GAIN	Depends on equalizer type selection.	—	—	—	—	VOICE SETTING	○	VOICE SETTING	VOICE SETTING

Parameter Chart

Group	Contents	Default	V. Harmony Memory	One Touch Setting	Music Database	Set Up Memory	Registration Freeze Group	All Set Up	Backup Group	Recall Group
REGISTRATION	REGISTRATION FREEZE ON/OFF	OFF	—	—	—	—	—	—	REGISTRATION	REGISTRATION
	FREEZE CATEGORY ON/OFF (VOICE SETTING, REV/CHO/EFF (109/107/700), REVERB/EFFECT(105/103), TUNE, PEDAL, ACMP.SETTING, VOCAL HARMONY (109/107/700)	ACMP. SETTING: ON Others: OFF	—	—	—	—	—	—	REGISTRATION	REGISTRATION
	REGISTRATION NAME (109/107/105/700)	REGIST Bank-Num.	—	—	—	—	Always recalled.	○	REGISTRATION	REGISTRATION
	ALL REGISTRATION Memory Data (20)	Factory preset data	—	—	—	—	—	○	REGISTRATION	REGISTRATION
MIXER	MIXER PART VOLUME (RHYTHM, BASS, CHORD, PAD, PHRASE)	110	—	—	○	—	ACMP. SETTING	○	ACMP SETTING	ACMP SETTING
	KEYBOARD VOLUME	127	—	—	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
ACCOMPANIMENT	STYLE	8 Beat 1	—	—	○	—	ACMP. SETTING	○	ACMP SETTING	ACMP SETTING
	Selected style in each STYLE SELECT page	Top style	—	—	—	—	—	○	ACMP SETTING	ACMP SETTING
	MAIN A/B/C/D	MAIN C	—	—	○	—	ACMP. SETTING	○	ACMP SETTING	ACMP SETTING
	ACMP. ON/OFF	OFF	—	ON	ON	—	ACMP. SETTING	○	ACMP SETTING	ACMP SETTING
	ACCOMPANIMENT MODE	MULTI FINGER	—	—	—	—	ACMP. SETTING	○	ACMP SETTING	ACMP SETTING
	TEMPO[3]	Depends on style selection.	—	—	○	—	ACMP. SETTING	○	ACMP SETTING	ACMP SETTING
	INTRO/FILL IN/ENDING	OFF	—	—	—	—	ACMP. SETTING	○	—	—
METRONOME	METRONOME TYPE	NORMAL	—	—	—	—	—	○	ACMP SETTING	ACMP SETTING
	METRONOME VOLUME	64	—	—	—	—	—	○	ACMP SETTING	ACMP SETTING
SONG	GUIDE MODE	NORMAL	—	—	—	—	—	—	—	—
	SOUND REPEAT	AUTO	—	—	—	—	—	○	SONG SETTING	SONG SETTING
	PIANO ROLL DISPLAY	AUTO	—	—	—	—	—	○	SONG SETTING	SONG SETTING
	GUIDE LAMP ON/OFF	ON	—	—	—	—	—	○	SONG SETTING	SONG SETTING
	LYRICS ON/OFF	ON	—	—	—	—	—	○	SONG SETTING	SONG SETTING
	SONG VOLUME	[ACMP/SONG VOLUME] slider value	—	—	—	—	—	—	SONG SETTING	—
HELP	LANGUAGE	ENGLISH	—	—	—	—	—	○	Always backed up.	—
FUNCTION	TUNE	440.0Hz (A3)	—	—	—	—	—	○	TUNE	TUNE
	TRANSPOSE (ALL)	0	—	—	—	—	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	TRANSPOSE (SONG)	0	—	—	—	—	—	○	VOICE SETTING	VOICE SETTING
	VOICE SETTING	AUTO	—	—	—	—	—	○	VOICE SETTING	VOICE SETTING
	KEY TOUCH	NORMAL	—	—	—	—	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	FIXED VELOCITY	76	—	—	—	—	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	LEFT PEDAL FUNCTION	SOFT	—	—	○	○	PEDAL	○	PEDAL	PEDAL
	RIGHT PEDAL FUNCTION (109/107/700)	Depends on R1 voice selection.	—	—	○	○	VOICE SETTING	○	VOICE SETTING	VOICE SETTING
	LEFT PART MIDI SEND Ch.	3	—	—	—	—	—	○	MIDI SETTING	MIDI SETTING
	RIGHT 1 PART MIDI SEND Ch.	1	—	—	—	—	—	○	MIDI SETTING	MIDI SETTING
	RIGHT 2 PART MIDI SEND Ch.	2	—	—	—	—	—	○	MIDI SETTING	MIDI SETTING
	LOCAL CONTROL ON/OFF	ON	—	—	—	—	—	○	MIDI SETTING	MIDI SETTING
	SYNC. CLOCK	INT.	—	—	—	—	—	○	MIDI SETTING	MIDI SETTING
	PROGRAM CHANGE SEND/RECEIVE ON/OFF	TX&RX (ON)	—	—	—	—	—	○	MIDI SETTING	MIDI SETTING
	CONTROL CHANGE SEND/RECEIVE ON/OFF	TX&RX (ON)	—	—	—	—	—	○	MIDI SETTING	MIDI SETTING
	SYSTEM EXCLUSIVE SEND/RECEIVE ON/OFF	TX&RX (ON)	—	—	—	—	—	○	MIDI SETTING	MIDI SETTING
	START/STOP SEND/RECEIVE ON/OFF	OFF	—	—	—	—	—	○	MIDI SETTING	MIDI SETTING
	MIDI FILTER ON/OFF (all channels)	ON	—	—	—	—	—	○	MIDI SETTING	MIDI SETTING
	MIDI TRANSPOSE RECEIVE ON/OFF	ON	—	—	—	—	—	○	MIDI SETTING	MIDI SETTING
	ACMP & RHY SEND ON/OFF	OFF	—	—	—	—	—	○	MIDI SETTING	MIDI SETTING
	HARMONY SEND ON/OFF	OFF	—	—	—	—	—	○	MIDI SETTING	MIDI SETTING
	SEQUENCER SEND ON/OFF	OFF	—	—	—	—	—	○	MIDI SETTING	MIDI SETTING
	REMOTE KEYBOARD	OFF	—	—	—	—	—	○	MIDI SETTING	MIDI SETTING
	MICRO TUNING ON/OFF	OFF	—	—	—	—	—	○	TUNE	TUNE
	MICRO TUNE. SETTING	0	—	—	—	—	—	○	TUNE	TUNE
	SCALE TUNING SELECT	PRESET	—	—	—	—	TUNE	○	TUNE	TUNE
	PRESET SCALE SELECT	EQUAL	—	—	—	—	TUNE	○	TUNE	TUNE
	PRESET SCALE KEY	C	—	—	—	—	TUNE	○	TUNE	TUNE
	USER SCALE SETTING	0	—	—	—	—	TUNE	○	TUNE	TUNE
	BACKUP ON/OFF	Set separately for each group.[4]							Always backed up.	
	Video Out Screen SIZE (109/107/700)	LARGE	—	—	—	—	—	—	Always backed up.	—
	Video Out CHARACTER Color (109/107/700)	BLUE (19)	—	—	—	—	—	—	Always backed up.	—
	Video Out BACKGROUND Color (109/107/700)	WHITE	—	—	—	—	—	—	Always backed up.	—
VOCAL HARMONY (109/107/700)	VOCAL HARMONY ON/OFF	OFF	○	—	—	—	VOCAL HARMONY	○	VOCAL HARMONY	VOCAL HARMONY
	VOCAL HARMONY TYPE	MenChoir	○	—	—	—	VOCAL HARMONY	○	VOCAL HARMONY	VOCAL HARMONY
	VOCAL HARMONY REVERB DEPTH	64	○	—	—	—	VOCAL HARMONY	○	VOCAL HARMONY	VOCAL HARMONY
	VOCAL HARMONY CHORUS DEPTH	0	○	—	—	—	VOCAL HARMONY	○	VOCAL HARMONY	VOCAL HARMONY
	VOCAL HARMONY EFFECT DEPTH	50	○	—	—	—	VOCAL HARMONY	○	VOCAL HARMONY	VOCAL HARMONY
	VOCAL HARMONY EFFECT TYPE	KARAOKE1	○	—	—	—	VOCAL HARMONY	○	VOCAL HARMONY	VOCAL HARMONY
	VOCAL HARMONY BALANCE	Depends on Vocal Harmony type.	○	—	—	—	VOCAL HARMONY	○	VOCAL HARMONY	VOCAL HARMONY
	VOCAL HARMONY PITCH TO NOTE PART	Depends on Vocal Harmony type.	○	—	—	—	VOCAL HARMONY	○	VOCAL HARMONY	VOCAL HARMONY
	VOCAL HARMONY GENDER TYPE	Depends on Vocal Harmony type.	○	—	—	—	VOCAL HARMONY	○	VOCAL HARMONY	VOCAL HARMONY
	VOCAL HARMONY HARMONY PART	Automatically set	○	—	—	—	VOCAL HARMONY	○	VOCAL HARMONY	VOCAL HARMONY
	VOCAL HARMONY HARMONY MODE	AUTO	○	—	—	—	VOCAL HARMONY	○	VOCAL HARMONY	VOCAL HARMONY
	VOCAL HARMONY PITCH CORRECTION	Depends on Vocal Harmony type.	○	—	—	—	VOCAL HARMONY	○	VOCAL HARMONY	VOCAL HARMONY
	VOCAL HARMONY LOCK ON/OFF	OFF	—	—	—	—	—	○	VOCAL HARMONY	VOCAL HARMONY

1 The One Touch Setting function can only set this parameter for the RIGHT1 part. The Registration function and All Set Up files can set this item for the RIGHT1, RIGHT2, and LEFT parts. Parameters related to the Organ Flutes voice will be recalled with a registration, Music Database setup, or All Setup file only if the Organ Flutes voice is selected by the recalled data.

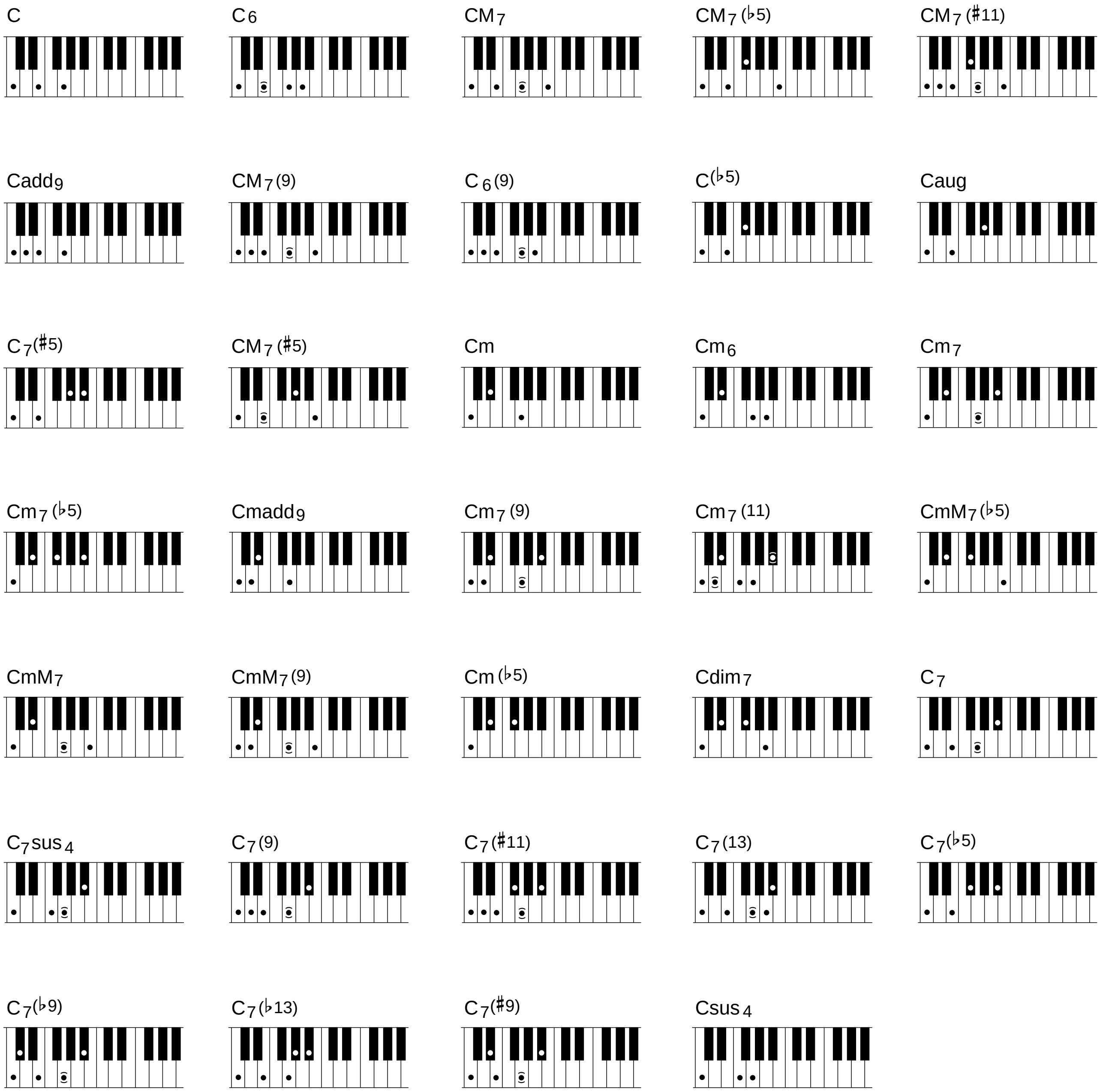
2 The Registration function only stores the gain values for the currently selected equalizer type. The Backup function backs up the gain values for all equalizer types.

3 When a Music Database setup or registration is recalled during Auto Accompaniment playback, the style thereby selected will begin playing immediately if it is the same as the style that is currently playing, or from the top of the next measure if it is a different style.

4 REGISTRATION: ON; Others: OFF

** All fingerings shown are simple root-position types.*
** Die hier gezeigten Akkorde sind jeweils die Grundakkorde.*
** Tous les doigtés indiqués sont du type à position fondamentale simple.*
** Todos los digitados se muestran como tipos de posición de raíz sencilla.*

Example for “C” chords
Beispiele für “C”-Akkorde
Exemples d’accords en “C”
Ejemplo de acordes “C”



MIDI Data Format

Many MIDI messages listed in the MIDI Data Format are expressed in decimal numbers, binary numbers and hexadecimal numbers. Hexadecimal numbers may include the letter “H” as a suffix. Also, “n” can freely be defined as any whole number.
To enter data/values, refer to the table below.

Decimal	Hexadecimal	Binary	Decimal	Hexadecimal	Binary
0	00	0000 0000	64	40	0100 0000
1	01	0000 0001	65	41	0100 0001
2	02	0000 0010	66	42	0100 0010
3	03	0000 0011	67	43	0100 0011
4	04	0000 0100	68	44	0100 0100
5	05	0000 0101	69	45	0100 0101
6	06	0000 0110	70	46	0100 0110
7	07	0000 0111	71	47	0100 0111
8	08	0000 1000	72	48	0100 1000
9	09	0000 1001	73	49	0100 1001
10	0A	0000 1010	74	4A	0100 1010
11	0B	0000 1011	75	4B	0100 1011
12	0C	0000 1100	76	4C	0100 1100
13	0D	0000 1101	77	4D	0100 1101
14	0E	0000 1110	78	4E	0100 1110
15	0F	0000 1111	79	4F	0100 1111
16	10	0001 0000	80	50	0101 0000
17	11	0001 0001	81	51	0101 0001
18	12	0001 0010	82	52	0101 0010
19	13	0001 0011	83	53	0101 0011
20	14	0001 0100	84	54	0101 0100
21	15	0001 0101	85	55	0101 0101
22	16	0001 0110	86	56	0101 0110
23	17	0001 0111	87	57	0101 0111
24	18	0001 1000	88	58	0101 1000
25	19	0001 1001	89	59	0101 1001
26	1A	0001 1010	90	5A	0101 1010
27	1B	0001 1011	91	5B	0101 1011
28	1C	0001 1100	92	5C	0101 1100
29	1D	0001 1101	93	5D	0101 1101
30	1E	0001 1110	94	5E	0101 1110
31	1F	0001 1111	95	5F	0101 1111
32	20	0010 0000	96	60	0110 0000
33	21	0010 0001	97	61	0110 0001
34	22	0010 0010	98	62	0110 0010
35	23	0010 0011	99	63	0110 0011
36	24	0010 0100	100	64	0110 0100
37	25	0010 0101	101	65	0110 0101
38	26	0010 0110	102	66	0110 0110
39	27	0010 0111	103	67	0110 0111
40	28	0010 1000	104	68	0110 1000
41	29	0010 1001	105	69	0110 1001
42	2A	0010 1010	106	6A	0110 1010
43	2B	0010 1011	107	6B	0110 1011
44	2C	0010 1100	108	6C	0110 1100
45	2D	0010 1101	109	6D	0110 1101
46	2E	0010 1110	110	6E	0110 1110
47	2F	0010 1111	111	6F	0110 1111
48	30	0011 0000	112	70	0111 0000
49	31	0011 0001	113	71	0111 0001
50	32	0011 0010	114	72	0111 0010
51	33	0011 0011	115	73	0111 0011
52	34	0011 0100	116	74	0111 0100
53	35	0011 0101	117	75	0111 0101
54	36	0011 0110	118	76	0111 0110
55	37	0011 0111	119	77	0111 0111
56	38	0011 1000	120	78	0111 1000
57	39	0011 1001	121	79	0111 1001
58	3A	0011 1010	122	7A	0111 1010
59	3B	0011 1011	123	7B	0111 1011
60	3C	0011 1100	124	7C	0111 1100
61	3D	0011 1101	125	7D	0111 1101
62	3E	0011 1110	126	7E	0111 1110
63	3F	0011 1111	127	7F	0111 1111

- Except the table above, for example 144-159(decimal)/9nH/1001 0000-1001 1111(binary) displays the Note On Message for each channel (1-16). 176-191/BnH/1011 0000-1011 1111 displays the Control Change Message for each channel (1-16). 192-207/CnH/1100 0000-1100 1111 displays the Program Change Message for each channel (1-16). 240/F0H/1111 0000 denotes the start of a System Exclusive Message. 247/F7H/1111 0111 denotes the end of a System Exclusive Message.
- aaH (hexidecimal)/0aaaaaaa (binary) denotes the data address. The address contains High, Mid, and Low.
- bbH/0bbbbbbb denotes the byte count.
- ccH/0ccccccc denotes the check sum.
- ddH/0ddddddd denotes the data/value.

(1) TRANSMIT FLOW

```
MIDI←   KEY OFF                     8nH
OUT     KEY ON/OFF                  9nH

        CONTROL CHANGE              BnH
        BANK SELECT MSB             BnH,00H
          BANK SELECT LSB           BnH,20H
          DATA ENTRY MSB            BnH,06H
          DATA ENTRY LSB            BnH,26H
          MAIN VOLUME               BnH,07H
          PANPOT                    BnH,0AH
          EXPRESSION                BnH,0BH
          SUSTAIN                   BnH,40H
          SOSTENUTE                 BnH,42H
          SOFT PEDAL                BnH,43H
          PORTAMENTO CONTROL        BnH,54H
          REVERB SEND LEVEL         BnH,5BH
          CHORUS SEND LEVEL         BnH,5DH
          VARIATION SEND LEVEL      BnH,5EH
          RPN LSB                   BnH,64H
          RPN MSB                   BnH,65H
          PITCH BEND SENS.          BnH,65H,00H,64H,00H,06H,mmH

        PROGRAM CHANGE              CnH

        SYSTEM EXCLUSIVE MESSAGE
          <YAMAHA MIDI FORMAT>
          <UNIVERSAL>
        UNIVERSAL NON-REALTIME      F0H 7EH.....F7H
          <XG STANDARD>
        XG PARAMETER CHANGE         F0H 43H 1nH 4CH aaH aaH aaH ddH
                                                         .....ddH F7H
        XG BULK DUMP                F0H 43H 0nH 4CH bbH bbH aaH aaH
                                            aaH ddH.....ddH ccH F7H
          <CLAVINOVA MIDI COMPLIANCE>
          <SPECIAL OPERATORS>

        SYSTEM REALTIME MESSAGE
          MIDI CLOCK                F8H
          START                     FAH
          STOP                      FCH
          ACTIVE SENSING            FEH
```

(2) RECEIVE FLOW

```
MIDI  → KEY OFF                     8nH
IN
        KEY ON/OFF                  9nH

        CONTROL CHANGE
          BANK SELECT MSB           BnH,00H
          BANK SELECT LSB           BnH,20H
          MODULATION                BnH,01H
          PORTAMENTO TIME           BnH,05H
          DATA ENTRY MSB            BnH,06H
          DATA ENTRY LSB            BnH,26H
          MAIN VOLUME               BnH,07H
          PANPOT                    BnH,0AH
          EXPRESSION                BnH,0BH
          SUSTAIN                   BnH,40H
          PORTAMENTO                BnH,41H
          SOSTENUTO                 BnH,42H
          SOFT PEDAL                BnH,43H
          HARMONIC CONTENT          BnH,47H
          RELEASE TIME              BnH,48H
          ATTACK TIME               BnH,49H
          BRIGHTNESS                BnH,4AH
          PORTAMENTO CONTROL        BnH,54H
          REVERB SEND LEVEL         BnH,5BH
          CHORUS SEND LEVEL         BnH,5DH
          VARIATION SEND LEVEL      BnH,5EH
          DATA INCREMENT            BnH,60H
          DATA DECREMENT            BnH,61H
          NRPN LSB                  BnH,62H
          NRPN MSB                  BnH,63H
            VIBRATO RATE            BnH,63H,01H,62H,08H,06H,mmH
            VIBRATO DEPTH           BnH,63H,01H,62H,09H,06H,mmH
            VIBRATO DELAY           BnH,63H,01H,62H,0AH,06H,mmH
            FILTER CUTOFF FREQ.     BnH,63H,01H,62H,20H,06H,mmH
            FILTER RESONANCE        BnH,63H,01H,62H,21H,06H,mmH
            EQ BASS (CVP-109/107/700)   BnH,63H,01H,62H,30H,06H,mmH
            EQ TREBLE (CVP-109/107/700) BnH,63H,01H,62H,31H,06H,mmH
            EQ BASS FREQ. (CVP-109/107/700)   BnH,63H,01H,62H,34H,06H,mmH
            EQ TREBLE FREQ. (CVP-109/107/700) BnH,63H,01H,62H,35H,06H,mmH
            EG ATTACK TIME          BnH,63H,01H,62H,63H,06H,mmH
            EG DECAY TIME           BnH,63H,01H,62H,64H,06H,mmH
            EG RELEASE              BnH,63H,01H,62H,66H,06H,mmH
            DRUM INST                                          *1
              CUTOFF FREQ.          BnH,63H,14H,62H,rrH,06H,mmH
```

```
        FILTER RESONANCE      BnH,63H,15H,62H,rrH,06H,mmH
        EG ATTACK RATE        BnH,63H,16H,62H,rrH,06H,mmH
        EG DECAY RATE         BnH,63H,17H,62H,rrH,06H,mmH
        PITCH COARSE          BnH,63H,18H,62H,rrH,06H,mmH
        PITCH FINE            BnH,63H,19H,62H,rrH,06H,mmH
        LEVEL                 BnH,63H,1AH,62H,rrH,06H,mmH
        PANPOT                BnH,63H,1CH,62H,rrH,06H,mmH
        REVERB SEND           BnH,63H,1DH,62H,rrH,06H,mmH
        CHORUS SEND           BnH,63H,1EH,62H,rrH,06H,mmH
        VARIATION SEND        BnH,63H,1FH,62H,rrH,06H,mmH
     RPN LSB                  BnH,64H
     RPN MSB                  BnH,65H
       PITCH BEND SENS.       BnH,65H,00H,64H,00H,06H,mmH
       FINE TUNING            BnH,65H,00H,64H,01H,06H,mmH,
                                                     26H,llH
       COARSE TUNING          BnH,65H,00H,64H,02H,06H,mmH
       NULL                   BnH,65H,7FH,64H,7FH
     ALL SOUND OFF            BnH,78H,00H
     RESET ALL CONTROLLERS    BnH,79H,00H
     ALL NOTES OFF            BnH,7BH,00H
     OMNI OFF                 BnH,7CH,00H
     OMNI ON                  BnH,7DH,00H
     MONO                     BnH,7EH
     POLY                     BnH,7FH

  ── PROGRAM CHANGE           CnH

  ── CHANNEL AFTER TOUCH      DnH

  └─ PITCH BEND CHANGE        EnH

── SYSTEM EXCLUSIVE MESSAGE
     <YAMAHA MIDI FORMAT>
     <UNIVERSAL>
  ── UNIVERSAL REALTIME       F0H 7FH.....F7H
  ── UNIVERSAL NON-REALTIME   F0H 7EH.....F7H
     <XG STANDARD>
  ── XG PARAMETER CHANGE      F0H 43H 1nH 4CH aaH aaH aaH ddH
                                              .....ddH F7H
  ── XG BULK DUMP             F0H 43H 0nH 4CH bbH bbH aaH aaH
                                        aaH ddH.....ddH ccH F7H
  ── PARAMETER REQUEST        F0H 43H 3nH 4CH aaH aaH aaH F7H
  └─ DUMP REQUEST             F0H 43H 2nH 4CH aaH aaH aaH F7H
     <CLAVINOVA MIDI COMPLIANCE>
     <SPETIAL OPERATORS>
     <Others>

└─ SYSTEM REALTIME MESSAGE
     MIDI CLOCK               F8H
     START                    FAH
     STOP                     FCH
     ACTIVE SENSING           FEH
```

(3) TRANSMIT/RECEIVE DATA

(3-1) CHANNEL VOICE MESSAGES

(3-1-1) KEY OFF

```
STATUS          1000nnnn(8nH)  n = 0 - 15 VOICE CHANNEL NUMBER
NOTE NUMBER     0kkkkkkk       k = 0 (C-2) - 127 (G8)
VELOCITY        0vvvvvvv       v: ignored
```

(3-1-2) KEY ON/OFF

```
STATUS          1001nnnn(9nH)  n = 0 - 15 VOICE CHANNEL NUMBER
NOTE NUMBER     0kkkkkkk       k = 0 (C-2) - 127 (G8)
VELOCITY        0vvvvvvv       (v ≠ 0) NOTE ON
                00000000       (v = 0) NOTE OFF
```

(3-1-3) PROGRAM CHANGE

```
STATUS          1100nnnn(CnH)  n = 0 - 15 VOICE CHANNEL NUMBER
PROGRAM NUMBER  0ppppppp       p = 0 - 127
```

*** PROGRAM NUMBER: XG DRUM VOICE number correspondence**

```
P = 0     Standard Kit
P = 1     Standard2 Kit
P = 4     Hit Kit (CVP-109/107/700)
P = 8     Room Kit
P = 16    Rock Kit
P = 24    Electro Kit
P = 25    Analog Kit
P = 27    Dance Kit
P = 32    Jazz Kit
P = 40    Brush Kit
P = 48    Classic Kit
```

*** PROGRAM NUMBER: XG SFX KIT number correspondence**

```
P = 0     SFX1 Kit
P = 1     SFX2 Kit
```

When DRUM VOICE is selected and program change data for a different DRUM VOICE is received, the currently selected Drum Setup data will be replaced with the new DRUM VOICE DATA.

(3-1-4) CHANNEL AFTER TOUCH (Receive only)

```
STATUS          1101nnnn(DnH)  n = 0 - 15 VOICE CHANNEL NUMBER
VALUE           0vvvvvvv       v = 0 - 127 AFTER TOUCH VALUE
```

(3-1-5) PITCH BEND CHANGE

```
STATUS          1110nnnn(EnH)  n = 0 - 15 VOICE CHANNEL NUMBER
LSB             0vvvvvvv       PITCH BEND CHANGE LSB
MSB             0vvvvvvv       PITCH BEND CHANGE MSB
```

(3-1-6) CONTROL CHANGE

```
STATUS          1011nnnn(BnH)  n = 0 - 15 VOICE CHANNEL NUMBER
CONTROL NUMBER  0ccccccc
CONTROL VALUE   0vvvvvvv
```

*** Transmit CONTROL NUMBER.**

```
c = 0      BANK SELECT MSB      ; v = 0:XG NORMAL,
                                      64:SFX NORMAL,
                                      126:XG SFX KIT,
                                      127:XG DRUM
c = 32     BANK SELECT LSB      ; v = 0 - 127
c =  6     DATA ENTRY MSB       ; v = 0 - 127              *1
c = 38     DATA ENTRY LSB       ; v = 0 - 127              *1
c =  7     MAIN VOLUME          ; v = 0 - 127
c = 10     PANPOT ; v = 0 - 127
c = 11     EXPRESSION           ; v = 0 - 127
c = 64     SUSTAIN              ; v = 0-63:OFF , 64-127:ON *2
c = 66     SOSTENUTO            ; v = 0-63:OFF , 64-127:ON *2
c = 67     SOFT PEDAL           ; v = 0-63:OFF , 64-127:ON *2
c = 84     PORTAMENTO CONTROL   ; v = 0 - 127
c = 91     REVERB SEND LEVEL    ; v = 0 - 127
c = 93     CHORUS SEND LEVEL    ; v = 0 - 127
c = 94     VARIATION SEND LEVEL ; v = 0 - 127
                                  (When only Connection = 1[System])
c = 100    RPN LSB              ; v = 0 - 127
c = 101    RPN MSB              ; v = 0 - 127
```

*** Receive CONTROL NUMBER.**

```
c =  0     BANK SELECT MSB      ; v = 0:XG NORMAL,
                                      64:SFX NORMAL,
                                      126:XG SFX KIT,
                                      127:XG DRUM
c = 32     BANK SELECT LSB      ; v = 0 - 127
c =  1     MODULATION           ; v = 0 - 127              *2
c =  5     PORTAMENTO TIME      ; v = 0 - 127              *2
c =  6     DATA ENTRY MSB       ; v = 0 - 127              *1
c = 38     DATA ENTRY LSB       ; v = 0 - 127              *1
c =  7     MAIN VOLUME          ; v = 0 - 127
c = 10     PANPOT ; v = 0 - 127
c = 11     EXPRESSION           ; v = 0 - 127
c = 64     SUSTAIN              ; v = 0-63:OFF , 64-127:ON *2
c = 65     PORTAMENTO           ; v = 0-63:OFF , 64-127:ON *2
c = 66     SOSTENUTO            ; v = 0-63:OFF , 64-127:ON *2
c = 67     SOFT PEDAL           ; v = 0-63:OFF , 64-127:ON *2
c = 71     HARMONIC CONTENT     ; v = 0:-64 - 64:0 - 127:+63 *2
c = 72     RELEASE TIME         ; v = 0:-64 - 64:0 - 127:+63 *2
c = 73     ATTACK TIME          ; v = 0:-64 - 64:0 - 127:+63 *2
c = 74     BRIGHTNESS           ; v = 0:-64 - 64:0 - 127:+63 *2
c = 84     PORTAMENT CONTROL    ; v = 0 - 127              *2
c = 91     REVERB SEND LEVEL    ; v = 0 - 127
c = 93     CHORUS SEND LEVEL    ; v = 0 - 127
c = 94     VARIATION SEND LEVEL ; v = 0 - 127
                                  (When only Connection = 1[System])
c = 96     DATA INCREMENT       ; v = 0 - 127              *1
c = 97     DATA DECREMENT       ; v = 0 - 127              *1
           RPN MSB/LSB, NRPN MSB/LSB
```

*1 Only when setting the appointed parameter with RPN, NRPN.
*2 Does not effect Rhythm Voice.

- Until a PROGRAM CHANGE message is received, the BANK SELECT operation will be suspended. When a Voice, including VOICE BANK, is changed, set the BANK SELECT and Program Change Message, and transmit in the following order, BANK SELECT MSB, LSB, PROGRAM CHANGE.
- MODULATION controls the Vibrato Depth.
- PORTAMENTO TIME controls the Pitch Change Speed when the Portamento Switch = ON. 0 being the shortest time, and 127 being the longest.
- PANPOT changes the value for the melody voice and rhythm voice in relation to the preset value.
- Portamento time is fixed to 0 when the PORTAMENTO CONTROL is used.

- HARMONIC CONTENT applies adjustment to the resonance value that is set by the voice. This parameter specifies relative change with the value of 64 producing 0 adjustment. As values get higher the sound becomes increasingly eccentric. Note that for some voices the effective parameter range is narrower than the legal parameter range.
- RELEASE TIME applies adjustment to the envelope release time set by the voice. This parameter specifies relative change with the value of 64 producing 0 adjustment.
- ATTACK TIME applies adjustment to the envelope attack time set by the voice. This parameter specifies relative change with the value of 64 producing 0 adjustment.
- BRIGHTNESS applies adjustment to the cut-off frequency set by the voice. This parameter specifies relative change with the value of 64 producing 0 adjustment. Lower voices produce a softer sound. For some voices the effective parameter range is narrower than the legal parameter range.

(3-2) CHANNEL MODE MESSAGES

STATUS	1011nnnn(BnH)	n = 0 - 15 VOICE CHANNEL NUMBER
CONTROL NUMBER	0ccccccc	c = CONTROL NUMBER
CONTROL VALUE	0vvvvvvv	v = DATA VALUE

(3-2-1) ALL SOUND OFF (Receive only) (CONTROL NUMBER = 78H , DATA VALUE = 0)

Switches off all sound from the channel. Reset Note On and Hold On conditions established by Channel Messages.

(3-2-2) RESET ALL CONTROLLERS (Receive only) (CONTROL NUMBER = 79H , DATA VALUE = 0)

Resets controllers as follows.

PITCH BEND CHANGE	0 (Center)
AFTER TOUCH	0 (min.)
MODULATION	0 (min.)
EXPRESSION	127 (max.)
SUSTAIN	0 (off)
SOSTENUTO	0 (off)
SOFT PEDAL	0 (off)
NRPN	Sets number to null. (Internal data remains unchanged)
RPN	Sets number to null. (Internal data remains unchanged)
PORTAMENT CONTROL	Resets portamento source note number
PORTAMENTO	0 (off)

(3-2-3) ALL NOTES OFF (Receive only) (CONTROL NUMBER = 7BH , DATA VALUE = 0)

Switches off all of the channel's "on" notes. However, any notes being held by SUSTAIN or SOSTENUTO continue to sound until SUSTAIN/SOSTENUTO goes off.

(3-2-4) OMNI OFF (Receive only) (CONTROL NUMBER = 7CH , DATA VALUE = 0)

Same processing as for All Notes Off.

(3-2-5) OMNI ON (Receive only) (CONTROL NUMBER = 7DH , DATA VALUE = 0)

Same processing as for All Notes Off. Omni On is not executed.

(3-2-6) MONO (Receive only) (CONTROL NUMBER = 7EH , DATA VALUE = 0)

Same processing as for All Notes Off. If the 3rd byte is in a range of 0-16 the corresponding channel will be changed to Mode 4 (m=1).

(3-2-7) POLY (Receive only) (CONTROL NUMBER = 7FH , DATA VALUE = 0)

Same processing as for All Sounds Off and the corresponding channel will be changed to Mode 3.

(3-3) REGISTERED PARAMETER NUMBER(RPN)

STATUS	1011nnnn(BnH)	n = 0 - 15 VOICE CHANNEL NUMBER
RPN LSB	01100100(64H)	
RPN LSB NUMBER	0ppppppp	p = RPN LSB (refer to the list below)
RPN MSB	01100101(65H)	
RPN MSB NUMBER	0qqqqqqq	q = RPN MSB (refer to the list below)
DATA ENTRY MSB	00000110(06H)	
DATA VALUE	0mmmmmmm	m = Data Value
DATA ENTRY LSB	00100110(26H)	
DATA VALUE	0lllllll	l = Data Value

First appoints the parameter for RPN MSB/LSB, then sets the parameter value for data entry MSB/LSB.

RPN LSB	RPN MSB	D.ENTRY MSB	D.ENTRY LSB	PARAMETER NAME	DATA RANGE
00H	00H	mmH	—	PITCH BEND SENSITIVITY	00H-18H (0 - 24 semitones)
01H	00H	mmH	llH	FINE TUNE	{mmH,llH} = {00H,00H}-{40H,00H}-{7FH,7FH} (-8192*100/8192) - 0 - (+8192*100/8192)
02H	00H	mmH	—	COARSE TUNE	28H - 40H - 58H (-24 - 0 - +24 semitones)
7FH	7FH	—	—	NULL	Clears the current RPN number setting. Does not change the internal parameter settings.

(3-4) NON-REGISTERED PARAMETER NUMBER(NRPN) (Receive only)

STATUS	1011nnnn(BnH)	n = 0 - 15 VOICE CHANNEL NUMBER
NRPN LSB	01100010(62H)	
NRPN LSB NUMBER	0ppppppp	p = NRPN LSB (refer to the list below)
NRPN MSB	01100011(63H)	
NRPN MSB NUMBER	0qqqqqqq	q = NRPN MSB (refer to the list below)
DATA ENTRY MSB	00000110(06H)	
DATA VALUE	0mmmmmmm	m = Data Value

First appoints the parameter for NRPN MSB/LSB, then sets the parameter value for data entry MSB/LSB.

NRPN MSB	NRPN LSB	D.ENTRY MSB	D.ENTRY LSB	PARAMETER NAME	DATA RANGE
01H	08H	mmH	—	VIBRATO RATE	00H - 40H - 7FH (-64 - 0 - +63)
01H	09H	mmH	—	VIBRATO DEPTH	00H - 40H - 7FH (-64 - 0 - +63)
01H	0AH	mmH	—	VIBRATO DELAY	00H - 40H - 7FH (-64 - 0 - +63)
01H	20H	mmH	—	FILTER CUTOFF FREQUENCY	00H - 40H - 7FH (-64 - 0 - +63)
01H	21H	mmH	—	FILTER RESONANCE	00H - 40H - 7FH (-64 - 0 - +63)
01H	30H	mmH	—	EQ BASS (CVP-109/107/700)	00H - 40H - 7FH (-64 - 0 - +63)
01H	31H	mmH	—	EQ TREBLE (CVP-109/107/700)	00H - 40H - 7FH (-64 - 0 - +63)
01H	34H	mmH	—	EQ BASS FREQ. (CVP-109/107/700)	00H - 40H - 7FH (-64 - 0 - +63)
01H	35H	mmH	—	EQ TREBLE FREQ. (CVP-109/107/700)	00H - 40H - 7FH (-64 - 0 - +63)
01H	63H	mmH	—	EG ATTACK TIME	00H - 40H - 7FH (-64 - 0 - +63)
01H	64H	mmH	—	EG DECAY TIME	00H - 40H - 7FH (-64 - 0 - +63)
01H	66H	mmH	—	EG RELEASE	00H - 40H - 7FH (-64 - 0 - +63)
14H	rrH	mmH	—	DRUM FILTER CUTOFF FREQ.	00H - 40H - 7FH (-64 - 0 - +63)
15H	rrH	mmH	—	DRUM FILTER RESONANCE	00H - 40H - 7FH (-64 - 0 - +63)
16H	rrH	mmH	—	DRUM AEG ATTACK RATE	00H - 40H - 7FH (-64 - 0 - +63)
17H	rrH	mmH	—	DRUM AEG DECAY RATE	00H - 40H - 7FH (-64 - 0 - +63)
18H	rrH	mmH	—	DRUM PITCH COARSE	00H - 40H - 7FH (-64 - 0 - +63)
19H	rrH	mmH	—	DRUM PITCH FINE	00H - 40H - 7FH (-64 - 0 - +63)
1AH	rrH	mmH	—	DRUM LEVEL	00H - 7FH (0 - max.)
1CH	rrH	mmH	—	DRUM PANPOT	00H ,01H - 40H - 7FH (random,left - center - right)
1DH	rrH	mmH	—	DRUM REVERB SEND LEVEL	00H - 7FH (0 - max.)
1EH	rrH	mmH	—	DRUM CHORUS SEND LEVEL	00H - 7FH (0 - max.)
1FH	rrH	mmH	—	DRUM VARIATION SEND LEVEL	00H - 7FH (0 - max.)

The MSB 14H-1FH (for drums) message is received when multi-part parameters PART MODE = DRUMS1...2.
rrH : drum instrument note number

(3-5) SYSTEM REALTIME MESSAGES

(3-5-1) MIDI CLOCK

STATUS 11111000 (F8H)

Transmission: 96 clocks per measure are transmitted.
Reception: If the instrument's clock is set to external, after FAH is received from the external device the instrument's clock will sync with the 96 beats per measure received from the external device.
Decides whether the internal clock, or Timing Clocks received via the MIDI IN will be used.

(3-5-2) START

STATUS 11111010 (FAH)

Transmission: Transmitted when instrument's Rhythm or Song playback is started.
Reception: Depending upon the condition, Rhythm, Song Playback, or Song Rec will start.

(3-5-3) STOP

STATUS 11111100 (FCH)

Transmission: Transmitted when instrument's Rhythm or Song playback is stopped.
Reception: Depending upon the condition, Rhythm, Song Playback, or Song Rec will stop.

(3-5-4) ACTIVE SENSING

STATUS 11111110 (FEH)

Transmission: Transmitted approximately once every 200msec.
Reception: Sensing is started once this Code is received. If Status or Data is not received within 400ms, the MIDI Receive Buffer will be cleared, and all notes, including those being sustained, will be cut OFF. Also, all control values will be reset to their factory defaults.

(3-6) SYSTEM EXCLUSIVE MESSAGE

(3-6-1) YAMAHA MIDI FORMAT

(3-6-1-1) SECTION CONTROL

binary	hexadecimal			
11110000	F0	Exclusive status		
01000011	43	YAMAHA ID		
01111110	7E	Style		
00000000	00			
0sssssss	SS	Switch No.		
		00H	:	INTRO A
		01H	:	INTRO B
		02H	:	INTRO C/D
		03H~07H	:	INTRO C/D
		08H	:	MAIN A
		09H	:	MAIN B
		0AH	:	MAIN C
		0BH~0FH	:	MAIN D
		10H	:	FILL IN A
		11H	:	FILL IN B
		12H	:	FILL IN C
		13H~17H	:	FILL IN D
		18H	:	BREAK FILL
		19H	:	BREAK FILL
		1AH	:	BREAK FILL
		1BH~1FH	:	BREAK FILL
		20H	:	ENDING A
		21H	:	ENDING B
		22H	:	ENDING C/D
		23H~27H	:	ENDING C/D
0ddddddd	DD	Switch On/Off: 00H(Off),7FH(On)		
11110111	F7	End of Exclusive		

When an ON code is received, the appointed section will be changed.

(3-6-1-2) TEMPO CONTROL

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01111110	7E	Style
00000000	01	
0ttttttt	TT	Tempo4
0ttttttt	TT	Tempo3
0ttttttt	TT	Tempo2
0ttttttt	TT	Tempo1
11110111	F7	End of Exclusive

The internal clock will be set to the received Tempo value.
Tempo Meta Event is a large data block (24-bit), it is divided into 4 groups with 7-bits going into each of the Tempos 1-4 (4 receives the remaining 3 bits).

(3-6-1-3) CHORD CONTROL type1

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01111110	7E	Style
00000010	02	type 1
0ddddddd	dd	chord root(cr)
0ddddddd	dd	chord type(ct)
0ddddddd	dd	bass note(bn)
0ddddddd	dd	bass type(bt)
11111110	F7	End of Exclusive

Chord transmit: Transmitted using type 1 format.

cr Chord Root 0kkknnnn (kkk:Change symbol, nnnn:Note)

Binary	Hex	Change symbol	Binary	Hex	Note
0000nnnn	0n	bbb(3 flats)	0kkk0000	k0	reserved
0001nnnn	1n	bb (2 flats)	0kkk0001	k1	C
0010nnnn	2n	b (1 flat)	0kkk0010	k2	D
0011nnnn	3n	natural	0kkk0011	k3	E
0100nnnn	4n	# (1 sharp)	0kkk0100	k4	F
0101nnnn	5n	## (2 sharps)	0kkk0101	k5	G
0110nnnn	6n	###(3 sharps)	0kkk0110	k6	A
			0kkk0111	k7	B

ct Chord Type 0 - 34,127

Binary	Hex	Dec	Chord type	Binary	Hex	Dec	Chord type
00000000	00	0	Maj	00010010	12	18	dim7
00000001	01	1	Maj6	00010011	13	19	7th
00000010	02	2	Maj7	00010100	14	20	7sus4
00000011	03	3	Maj7(#11)	00010101	15	21	7b5
00000100	04	4	Maj(9)	00010110	16	22	7(9)
00000101	05	5	Maj7(9)	00010111	17	23	7(#11)
00000110	06	6	Maj6(9)	00011000	18	24	7(13)
00000111	07	7	aug	00011001	19	25	7(b9)
00001000	08	8	min	00011010	1A	26	7(b13)
00001001	09	9	min6	00011011	1B	27	7(#9)
00001010	0A	10	min7	00011100	1C	28	Maj7aug
00001011	0B	11	min7b5	00011101	1D	29	7aug
00001100	0C	12	min(9)	00011110	1E	30	1+8
00001101	0D	13	min7(9)	00011111	1F	31	1+5
00001110	0E	14	min7(11)	00100000	20	32	sus4
00001111	0F	15	minMaj7	00100001	21	33	1+2+5
00010000	10	16	minMaj7(9)	00100010	22	34	cc
00010001	11	17	dim				

bn	On Bass Note	Same as Chord root, 127:No bass chord
bt	Bass Chord	Same as Chord type 127:No bass chord

(3-6-2) UNIVERSAL SYSTEM EXCLUSIVE

(3-6-2-1) UNIVERSAL REALTIME MESSAGE

(3-6-2-1-1) MIDI MASTER VOLUME (Receive only)

binary	hexadecimal	
11110000	F0	Exclusive status
01111110	7F	Universal Realtime
01111111	7F	ID of target Device
00001001	04	Sub-ID #1=Device Control Message
00000001	01	Sub-ID #2=Master Volume
0sssssss	SS	Volume LSB
0ttttttt	TT	Volume MSB
11110111	F7	End of Exclusive
or		
11110000	F0	Exclusive status
01111110	7F	Universal Realtime
0xxxnnnn	XN	When N is received N=0-F, whichever is received. When N is transmitted N always=0. X = don't care
00001001	04	Sub-ID #1=Device Control Message
00000001	01	Sub-ID #2=Master Volume
0sssssss	SS	Volume LSB
0ttttttt	TT	Volume MSB
11110111	F7	End of Exclusive

The volume for all channels will be changed simultaneously.
The TT value is used as the MIDI Master Volume value. (the SS value is ignored.)

(3-6-2-2) UNIVERSAL NON REALTIME MESSAGE

(3-6-2-2-1) GENERAL MIDI SYSTEM ON

binary	hexadecimal	
11110000	F0	Exclusive status
01111110	7E	Universal Non-Realtime
01111111	7F	ID of target Device
00001001	09	Sub-ID #1=General MIDI Message
00000001	01	Sub-ID #2=General MIDI On
11110111	F7	End of Exclusive
or		
11110000	F0	Exclusive status
01111110	7E	Universal Non-Realtime
0xxxnnnn	XN	When N is received N=0-F, whichever is received. When N is transmitted N always=0. X = don't care
00001001	09	Sub-ID #1=General MIDI Message
00000001	01	Sub-ID #2=General MIDI On
11110111	F7	End of Exclusive

Depending upon the received ON message, the System Mode will be changed to XG.
Except MIDI Master Tuning, all control data be reset to default values.
This message requires approximately 50ms to execute, so sufficient time should be allowed before the next message is sent.

After the GM System ON message is received, message reception of the following will be limited.

- Bank Select MSB-LSB in channel 10 will be ignored and the drum voice will be fixed.
- Bank Select MSB-LSB except in channel 10 will be ignored except 127/0.
- NRPN is not received.

When XG SYSTEM ON is received, these restrictions will be cancelled.

(3-6-3) XG STANDARD

(3-6-3-1) XG PARAMETER CHANGE

(3-6-3-1-1) XG SYSTEM ON

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
0001nnnn	1N	Device Number
01001100	4C	Model ID
00000000	00	Address High
00000000	00	Address Mid
01111110	7E	Address Low
00000000	00	Data
11110111	F7	End of Exclusive

Depending upon the received ON message, the SYSTEM MODE will be changed to XG.Controllers will be reset, all values of Multi Part and Effect, and All System values denoted by "XG" data within All System will be reset to default values in the table.
This message requires approximately 50ms to execute, so sufficient time should be allowed before the next message is sent.

(3-6-3-1-2) XG PARMETER CHANGE

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
0001nnnn	1N	Device Number
01001100	4C	Model ID
0aaaaaaa	AA	Address High
0aaaaaaa	AA	Address Mid
0aaaaaaa	AA	Address Low
0ddddddd	DD	Data
|	|	
11110111	F7	End of Exclusive

For parameters with data size of 2 or 4, transmit the appropriate number of data bytes.
For more information on Address and Parameters, refer to < Table 1-2 > (page 23) and < Table 1-4 > ~ < Table 1-10 > (pages 23-29).

The following Parameter Changes are handled.
- XG System Data
- Multi Effect 1 Data
- Multi EQ Data (CVP-109/107/700)
- Multi Effect 2 Data (CVP-109/107/700)
- Special Effect Data (CVP-109/107/700)
- Multi Part Data
- A/D Part Data (CVP-109/107/700)
- Drums Setup Data

(3-6-3-2) XG BULK DUMP

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
0000nnnn	0N	Device Number
01001100	4C	Model ID
0bbbbbbb	BB	ByteCount
0bbbbbbb	BB	ByteCount
0aaaaaaa	AA	Address High
0aaaaaaa	AA	Address Mid
0aaaaaaa	AA	Address Low
0ddddddd	DD	Data
|	|	
0ccccccc	CC	Check sum
11110111	F7	End of Exclusive

For more information on Address and Byte Count, refer to < Table 1-2 > ~ < Table 1-10 > (pages 23-29).
The Check Sum value is set such that the sum of Byte Count, Address, Data, and Check Sum has value zero in its seven least significant bits.
If the top of the block is appointed to the Address the XG Bulk Dump, Bulk Request will be received.
The Block is a unit that consists of the data, arranged in the list, as the Total Size.

The following Bulk Dumps are handled.
- XG System Data
- Multi Effect 1 Data(Individual effect unit)
- Multi EQ Data (CVP-109/107/700)
- Multi Effect 2 Data (CVP-109/107/700)
- Special Effect Data (CVP-109/107/700)
- Multi Part Data(Individual part unit)
- A/D Part Data (CVP-109/107/700)
- Drums Setup Data(Individual note unit)
- System Information(Transmit only)

(3-6-3-3) XG PARAMETER REQUEST (Receive only)

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
0011nnnn	3n	Device Number
01001100	4C	Model ID
0aaaaaaa	AA	Address High
0aaaaaaa	AA	Address Mid
0aaaaaaa	AA	Address Low
11110111	F7	End of Exclusive

For more information on Address and Byte Count refer to < Table 1-2 > (page 23) and < Table 1-4 > ~ < Table 1-10 > (pages 23-29).

The following Parameter Requests are handled.
- XG System Data
- Multi Effect 1 Data
- Multi EQ Data (CVP-109/107/700)
- Multi Effect 2 Data (CVP-109/107/700)
- Special Effect Data (CVP-109/107/700)
- Multi Part Data
- A/D Part Data (CVP-109/107/700)
- Drums Setup Data

(3-6-3-4) XG DUMP REQUEST (Receive only)

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
0010nnnn	2n	Device Number
01001100	4C	Model ID
0aaaaaaa	AA	Address High
0aaaaaaa	AA	Address Mid
0aaaaaaa	AA	Address Low
11110111	F7	End of Exclusive

For more information on Address and Byte Count refer to < Table 1-2 > ~ < Table 1-10 > (pages 23-29).

The following Dump Requests are handled.
- XG System Data
- Multi Effect 1 Data(Individual module unit)
- Multi EQ Data (CVP-109/107/700)
- Multi Effect 2 Data (CVP-109/107/700)
- Special Effect Data (CVP-109/107/700)
- Multi Part Data(Individual part unit)
- A/D Part Data (CVP-109/107/700)
- Drums Setup Data(Individual note unit)
- System Information

(3-6-4) CLAVINOVA MIDI COMPLIANCE

(3-6-4-1) INTERNAL CLOCK / EXTERNAL CLOCK (Receive only)

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01110011	73	Clavinova ID
00000001	01	Clavinova common ID
0000001n	0N	N: 2(Internal Clock),3(External Clock)
11110111	F7	End of Exclusive

(3-6-4-2) BULK DUMP ORGAN FLUTE DATA (CVP-109/107/700)

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA
01110011	73	CLAVINOVA ID
00000001	01	Model ID (Clavinova common ID)
00000110	06	Bulk ID
00001011	0B	Bulk No.(ORGAN FLUTE Bulk Dump DATA)
0000nnnn	0n	Data Length
0000nnnn	0n	Data Length
0000nnnn	0n	Data Length
0000nnnn	0n	Data Length (Data Length=nnnnH bytes)
0ddddddd	dd1	Bulk Data
	:	:
0ccccccc	cc	don't care
11110111	F7	End of Exclusive

Data Length = 16Hbytes
[BULK DATA items dd1...dd22]

1st	0nH	n: MIDI Channel No.		Discription
2nd	Drawber	[1']	00 - 07H	0: -∞ [dB]
3rd		[1 1/3']	00 - 07H	1: -12 [dB]
4th		don't care	00H	2: -9 [dB]
5th		[2']	00 - 07H	3: -6 [dB]
6th		[2 2/3']	00 - 07H	4: -4.5 [dB]
7th		[4']	00 - 07H	5: -3 [dB]
8th		[5 1/3']	00 - 07H	6: -1.5 [dB]
9th		[8']	00 - 07H	7: 0 [dB]
10th		[16']	00 - 07H	
11th		[Attack 2']	00 - 07H	
12th		[Attack 2 2/3']	00 - 07H	
13th		[Attack 4']	00 - 07H	
14th	Settings	[Attack Length]	00 - 07H	
15th		[Response]	00 - 07H	
16th		[Attack Mode]	00 - 01H	00H:Each, 01H:First
17th		don't care	00H	
18th		don't care	00H	
19th		don't care	00H	
20th		don't care	00H	
21th		don't care	00H	
22th		don't care	00H	

(3-6-4-3) DOC MULTI TIMBRE ON / OFF (Receive only)

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01110011	73	Clavinova ID
00000001	01	Clavinova commmon ID
00000110	1N	N:3(DOC Multi Timbre Off),4(DOC Multi Timbre On)
11110111	F7	End of Exclusive

(3-6-4-4) PANEL LED ON / OFF (Receive only)

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01110011	73	Clavinova ID
00000001	01	Clavinova commmon ID
00011010	1A	PANEL LED On/Off
0mmmmmmm	MM	MM:00H(LED Off),01H(LED On),02H(The LED flashes) 03H (LED All off), 04H (Panel LED returns to normal operation)
00000000	00	
0nnnnnnn	NN	LED No.
11110111	F7	End of Exclusive

Remotely switches the Panel LED On/Off.

(3-6-4-5) PANEL VOICE SETTING (Receive only)

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01110011	73	Clavinova ID
01000101	01	Clavinova common ID
00100010	22	Piano Live Exclusive Substatus
00000000	00	Panel Voice Setting Substatus
0000nnnn	0n	Panel Part No. 00H (RIGHT 1) 01H (RIGHT 2) 02H (LEFT)
0mmmmmmm	mm	Bank Select MSB
0lllllll	ll	Bank Select LSB
0ppppppp	pp	Program Change
11110111	F7	End of Exclusive

(3-6-4-6) PANEL VOICE VOLUME SETTING (Receive only)

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01110011	73	Clavinova ID
01000101	01	Clavinova common ID
00100010	22	Piano Live Exclusive Substatus
00000001	01	Panel Voice Volume Setting Substatus
0000nnnn	0n	Panel Part No. 00H (RIGHT 1) 01H (RIGHT 2) 02H (LEFT)
0vvvvvvv	vv	Value (0 - 7FH)
11110111	F7	End of Exclusive

(3-6-4-7) PANEL VOICE REVERB DEPTH SETTING (Receive only)

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01110011	73	Clavinova ID
01000101	01	Clavinova common ID
00100010	22	Piano Live Exclusive Substatus
00000010	02	Panel Voice Reverb Depth Setting Substatus
0000nnnn	0n	Panel Part No. 00H (RIGHT 1) 01H (RIGHT 2) 02H (LEFT)
0vvvvvvv	vv	Value (0 - 7FH)
11110111	F7	End of Exclusive

(3-6-4-8) PANEL VOICE EFFECT DEPTH SETTING (Receive only)

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01110011	73	Clavinova ID
01000101	01	Clavinova common ID
00100010	22	Piano Live Exclusive Substatus
00000011	03	Panel Voice Effect Depth Setting Substatus
0000nnnn	0n	Panel Part No. 00H (RIGHT 1) 01H (RIGHT 2) 02H (LEFT)
0vvvvvvv	vv	Value (0 - 7FH)
11110111	F7	End of Exclusive

(3-6-4-9) MIDI FA CANCEL (Receive only)

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01110011	73	Clavinova ID
01000101	01	Clavinova common ID
01100001	61	MIDI FA Cancel
11110111	F7	End of Exclusive

If this message is received, even if FAH is received the Rhythm will not start.

(3-6-5) SPECIAL OPERATORS

(3-6-5-1) SPLIT POINT

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01110011	73	Clavinova ID
01000101	01	Clavinova common ID
00010001	11	Sub ID
00000000	00	
00010100	14	Split Point
0ddddddd	DD	Split Key No.
11110111	F7	End of Exclusive

(3-6-5-2) STYLE NUMBER

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01110011	73	Clavinova ID
01011010	5E	CVP-103/105/107/109/700 ID
00010001	11	Sub ID
00000000	00	Channel No. (always 00)
00010110	16	Style No. Control No.
0mmmmmmm	mm	Style No. MSB
0lllllll	ll	Style No. LSB
11110111	F7	End of Exclusive

(3-6-5-3) FINGERING

binary	hexadecimal	
11110000	F0	Exclusive status
01000011	43	YAMAHA ID
01110011	73	Clavinova ID
01000101	01	Clavinova common ID
00010001	11	Sub ID
00000000	00	
01000000	40	Fingering
0000dddd	0D	0D: 00H(Off),01H(Single Finger), 02H(Fingered 1),03H(Fingered 2), 04H(Full Keyboard),07H(Multi Finger)
11110111	F7	End of Exclusive

(3-6-5-4) ACCOMP VOLUME

```
binary       hexadecimal
11110000     F0          Exclusive status
01000011     43          YAMAHA ID
01110011     73          Clavinova ID
01000101     01          Clavinova common ID
00010001     11          Sub ID
0000nnnn     0N          Part: 00H(All Part),05H(Rhythm),0AH(Bass),
                         06H(Chord),0DH(Pad),07H(Phrase)
01000000     42          Accomp Volume
0ddddddd     DD          Volume Data: 00H~7FH
11110111     F7          End of Exclusive
```

(3-6-5-5) CHANNEL DETUNE

```
binary       hexadecimal
11110000     F0          Exclusive status
01000011     43          YAMAHA ID
01110011     73          Clavinova ID
01000101     01          Clavinova common ID
00010001     11          Sub ID
0000nnnn     0N          N = MIDI Channel
01000011     43          Dual Detune
0vvvvvvv     VV          Value VV: 00H - 40H - 7FH (-64 - 0 - +63)
11110111     F7          End of Exclusive
```

The Channel Detune message only affects the specified channel.

(3-6-5-6) VOLUME ,EXPRESSION AND PAN REALTIME CONTROL OFF

```
binary       hexadecimal
11110000     F0          Exclusive status
01000011     43          YAMAHA ID
01110011     73          Clavinova ID
01000101     01          Clavinova common ID
00010001     11          Sub ID
0000nnnn     0N          N = MIDI Channel
01001001     45          Volume and Expression Realtime Control Off
0vvvvvvv     VV          Value VV: off=7FH, on=00H
11110111     F7          End of Exclusive
```

When "On" is received, subsequent volume, expression, and PAN changes are only valid after the reception of the next key on. Normal operation resumes when "Off" is received.

(3-6-5-7) MIDI KEY LED MODE ON / OFF (Receive only)

```
binary       hexadecimal
11110000     F0          Exclusive status
01000011     43          YAMAHA ID
01110011     73          Clavinova ID
01000101     01          Clavinova common ID
00010001     11          Sub ID
0000nnnn     0N          N = MIDI Channel
01000111     47          MIDI Key LED Mode On / Off
0ddddddd     DD          DD: 00H(Key LED Mode Off),
                             01H(Key LED Mode On + no tone),
                             02H(Key LED Mode On + tone)
11110111     F7          End of Exclusive
```

(3-6-5-8) NATURAL REVERB TYPE (CVP-109)

```
binary       hexadecimal
11110000     F0          Exclusive status
01000011     43          YAMAHA ID
01110011     73          Clavinova ID
01011001     5D          CVP-109 ID
00010001     11          Sub ID
00000000     00          Channel No. (always 00)
01010010     52          Natural Reverb Control No.
00000000     00          Natural Reverb Type Parameter No.
0mmmmmmm     mm          Natural Reverb Type MSB
0lllllll     ll          Natural Reverb Type LSB
11110111     F7          End of Exclusive
```

(3-6-5-9) NATURAL REVERB TRACK ON/OFF (CVP-109)

```
binary       hexadecimal
11110000     F0          Exclusive status
01000011     43          YAMAHA ID
01110011     73          Clavinova ID
01011001     5D          CVP-109 ID
00010001     11          Sub ID
0000nnnn     0n          Channel No. (00H - 0FH)
                          00H - 0FH (MIDI Channel 1 - 16)
01010011     53          Natural Reverb Track On/Off Control No.
0ddddddd     dd          Natural Reverb Track On/Off
                          dd  Natural Rev. XG Rev.
                           0       Off        On      (default)
                           1       Off        Off
                           2       On         On
                           3       On         Off
11110111     F7     End of Exclusive
```

(3-6-5-10) VOCAL HARMONY PITCH TO NOTE (CVP-109/107/700)
(Receive only)

```
binary       hexadecimal
11110000     F0          Exclusive status
01000011     43          YAMAHA ID
01110011     73          Clavinova ID
01000101     01          Clavinova common ID
00010001     11          Sub ID
00000000     00          Channel No. (always 00)
01010000     50          Vocal Harmony Additional Parameter Control No.
00000000     00          Pitch to Note Parameter No.
0sssssss     ss          Pitch to Note Switch
                          00H (Off)
                          01H (On)
11110111     F7          End of Exclusive
```

(3-6-5-11) VOCAL HARMONY PITCH TO NOTE PART (CVP-109/107/700)
(Receive only)

```
binary       hexadecimal
11110000     F0          Exclusive status
01000011     43          YAMAHA ID
01110011     73          Clavinova ID
01000101     01          Clavinova common ID
00010001     11          Sub ID
00000000     00          Channel No. (always 00)
01010000     50          Vocal Harmony Additional Parameter Control No.
00000001     01          Pitch to Note Part Parameter No.
0sssssss     ss          Pitch to Note Part No.
                          00H (RIGHT 1)
                          01H (RIGHT 2)
                          02H (LEFT)
11110111     F7          End of Exclusive
```

(3-6-5-12) VOCAL HARMONY VOCODER PART (CVP-109/107/700)
(Harmony Part [Panel]) (Receive only)

```
binary       hexadecimal
11110000     F0          Exclusive status
01000011     43          YAMAHA ID
01110011     73          Clavinova ID
01000101     01          Clavinova common ID
00010001     11          Sub ID
00000000     00          Channel No. (always 00)
01010000     50          Vocal Harmony Additional Parameter Control No.
00010000     10          Vocoder Part Parameter No.
0sssssss     ss          Harmony Part No.
                          00H (Off)
                          01H (RIGHT 1)
                          02H (LEFT)
11110111     F7          End of Exclusive
```

(3-6-6) Others

(3-6-6-1) MIDI MASTER TUNING (Receive only)

```
binary       hexadecimal
11110000     F0          Exclusive status
01000011     43          YAMAHA ID
0001nnnn     1N          When N is received N=0-F,
                         whichever is received.
00100111     27          Model ID
00110000     30          Sub ID
00000000     00
00000000     00
0mmmmmmm     MM          Master Tune MSB
0lllllll     LL          Master Tune LSB
0ccccccc     CC          don't care
11110111     F7          End of Exclusive
```

Changes tuning of all channels.
MM, LL values are used to define the MIDI Master Tuning value.

T = M – 128

T: Tuning value (-99 cents to +99 cents)
M: A single byte value (28–228) that consists of bits 0–3 of MM as MSB, bits 0–3 of LL as LSB.

This setting is not reset when the GM System or XG System is turned on.

< Table 1-1>

Parameter Basic Address

	Parameter Change Address (H)(M)(L)	Description
SYSTEM	00 00 00	System
	00 00 7D	Drum Setup Reset
	00 00 7E	XG System On
	00 00 7F	All Parameter Reset
INFORMATION	01 00 00	System Information
EFFECT 1	02 01 00	Effect1(Reverb,Chorus,Variation)
MULTI EQ (CVP-109/107/700)	02 40 00	Multi EQ
EFFECT 2 (CVP-109/107/700)	03 00 00	Effect2 (Insertion Effect1)
	: : :	
	03 02 00	(Insertion Effect3)
SPECIAL EFFECT (CVP-109/107/700)	04 00 00	Special Insertion Effect1
MULTI PART	08 00 00	Multi Part 1
	:	
	08 0F 00	Multi Part 16
A/D (CVP-109/107/700)	10 00 00	A/D Part 1
DRUM	30 0D 00	Drum Setup 1 →
	31 0D 00	Drum Setup 2

Address	Parameter
3n 0D 00	note number 13
3n 0E 00	note number 14
: :	
3n 5B 00	note number 91

< Table 1-2 >

MIDI Parameter Change table (SYSTEM)

Address (H)			Size (H)	Data (H)	Parameter Name	Description	Default Value(H)
00	00	00	4	0000	Master Tune	-102.4..+102.3[cent]	00 04 00 00
		01		..07FF		1st bit3-0 -> bit15-12	(0400)
		02				2nd bit3-0 -> bit11-8	
		03				3rd bit3-0 -> bit7-4	
						4th bit3-0 -> bit3-0	
		04	1	00..7F	Master Volume	0..127	7F
		05	1		Not Used		
		06	1	28..58	Transpose	-24..+24[semitones]	40
		7D		n	Drum Setup Reset	n=Drum Setup Number	
		7E		00	XG System On	00=XG Sytem on	
		7F		00	All Parameter Reset	00=on (receive only)	
TOTAL SIZE			6				

< Table 1-3 >

MIDI Parameter table (System information)

Address (H)			Size (H)	Data (H)	Parameter Name	Description
01	00	00	E	20..7F	Model Name	32..127(ASCII)
		:				
		0D				
		0E	1	00		
		0F	1	01		
TOTAL SIZE			10			

(Transmitted by Dump Request. Not received. Bulk Dump Only)

< Table 1-4 >

MIDI Parameter Change table (EFFECT 1)

Address (H)			Size (H)	Data (H)	Parameter Name	Description	Default Value(H)
02	01	00	2	00..7F	Reverb Type MSB	Refer to the Effect Type List	01(=HALL1)
				00..7F	Reverb Type LSB	00 : basic type	00
		02	1	00..7F	Reverb Parameter 1	Refer to the Ef. Parameter List	Depend on Reverb type
		03	1	00..7F	Reverb Parameter 2	Refer to the Ef. Parameter List	Depend on Reverb type
		04	1	00..7F	Reverb Parameter 3	Refer to the Ef. Parameter List	Depend on Reverb type
		05	1	00..7F	Reverb Parameter 4	Refer to the Ef. Parameter List	Depend on Reverb type

		06	1	00..7F	Reverb Parameter 5	Refer to the Ef. Parameter List	Depend on Reverb type
		07	1	00..7F	Reverb Parameter 6	Refer to the Ef. Parameter List	Depend on Reverb type
		08	1	00..7F	Reverb Parameter 7	Refer to the Ef. Parameter List	Depend on Reverb type
		09	1	00..7F	Reverb Parameter 8	Refer to the Ef. Parameter List	Depend on Reverb type
		0A	1	00..7F	Reverb Parameter 9	Refer to the Ef. Parameter List	Depend on Reverb type
		0B	1	00..7F	Reverb Parameter 10	Refer to the Ef. Parameter List	Depend on Reverb type
		0C	1	00..7F	Reverb Return	-∞..0..+6dB(0..96..127)	40
		0D	1	01..7F	Reverb Pan	L63..C..R63(1..64..127)	40
TOTAL SIZE 0E							
02	01	10	1	00..7F	Reverb Parameter 11	Refer to the Ef. Parameter List	Depend on Reverb type
		11	1	00..7F	Reverb Parameter 12	Refer to the Ef. Parameter List	Depend on Reverb type
		12	1	00..7F	Reverb Parameter 13	Refer to the Ef. Parameter List	Depend on Reverb type
		13	1	00..7F	Reverb Parameter 14	Refer to the Ef. Parameter List	Depend on Reverb type
		14	1	00..7F	Reverb Parameter 15	Refer to the Ef. Parameter List	Depend on Reverb type
		15	1	00..7F	Reverb Parameter 16	Refer to the Ef. Parameter List	Depend on Reverb type
TOTAL SIZE 6							
02	01	20	2	00..7F	Chorus Type MSB	Refer to the Effect Type List	41(=Chorus1)
				00..7F	Chorus Type LSB	00 : basic type	00
		22	1	00..7F	Chorus Parameter 1	Refer to the Ef. Parameter List	Depend on Chorus Type
		23	1	00..7F	Chorus Parameter 2	Refer to the Ef. Parameter List	Depend on Chorus Type
		24	1	00..7F	Chorus Parameter 3	Refer to the Ef. Parameter List	Depend on Chorus Type
		25	1	00..7F	Chorus Parameter 4	Refer to the Ef. Parameter List	Depend on Chorus Type
		26	1	00..7F	Chorus Parameter 5	Refer to the Ef. Parameter List	Depend on Chorus Type
		27	1	00..7F	Chorus Parameter 6	Refer to the Ef. Parameter List	Depend on Chorus Type
		28	1	00..7F	Chorus Parameter 7	Refer to the Ef. Parameter List	Depend on Chorus Type
		29	1	00..7F	Chorus Parameter 8	Refer to the Ef. Parameter List	Depend on Chorus Type
		2A	1	00..7F	Chorus Parameter 9	Refer to the Ef. Parameter List	Depend on Chorus Type
		2B	1	00..7F	Chorus Parameter 10	Refer to the Ef. Parameter List	Depend on Chorus Type
		2C	1	00..7F	Chorus Return	-∞..0..+6dB(0..96..127)	40
		2D	1	01..7F	Chorus Pan	L63..C..R63(1..64..127)	40
		2E	1	00..7F	Send Chorus To Reverb	-∞..0..+6dB(0..96..127)	00
TOTAL SIZE 0F							
02	01	30	1	00..7F	Chorus Parameter 11	Refer to the Ef. Parameter List	Depend on Chorus Type
		31	1	00..7F	Chorus Parameter 12	Refer to the Ef. Parameter List	Depend on Chorus Type
		32	1	00..7F	Chorus Parameter 13	Refer to the Ef. Parameter List	Depend on Chorus Type
		33	1	00..7F	Chorus Parameter 14	Refer to the Ef. Parameter List	Depend on Chorus Type
		34	1	00..7F	Chorus Parameter 15	Refer to the Ef. Parameter List	Depend on Chorus Type
		35	1	00..7F	Chorus Parameter 16	Refer to the Ef. Parameter List	Depend on Chorus Type
TOTAL SIZE 6							
02	01	40	2	00..7F	Variation Type MSB	Refer to the Effect Type List	“05(=DELAY L,C,R)”
				00..7F	Variation Type LSB	00 : basic type	00
		42	2	00..7F	Vari. Param. 1 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
				00..7F	Vari. Param. 1 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type
		44	2	00..7F	Vari. Param. 2 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
				00..7F	Vari. Param. 2 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type
		46	2	00..7F	Vari. Param. 3 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
				00..7F	Vari. Param. 3 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type
		48	2	00..7F	Vari. Param. 4 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
				00..7F	Vari. Param. 4 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type
		4A	2	00..7F	Vari. Param. 5 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
				00..7F	Vari. Param. 5 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type
		4C	2	00..7F	Vari. Param. 6 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
				00..7F	Vari. Param. 6 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type
		4E	2	00..7F	Vari. Param. 7 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
				00..7F	Vari. Param. 7 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type
		50	2	00..7F	Vari. Param. 8 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
				00..7F	Vari. Param. 8 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type
		52	2	00..7F	Vari. Param. 9 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
				00..7F	Vari. Param. 9 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type
		54	2	00..7F	Vari. Param. 10 MSB	Refer to the Ef. Parameter List	Depend on Vari. Type
				00..7F	Vari. Param. 10 LSB	Refer to the Ef. Parameter List	Depend on Vari. Type
		56	1	00..7F	Variation Return	-∞..0..+6dB(0..96..127)	40
		57	1	01..7F	Variation Pan	L63..C..R63(1..64..127)	40
		58	1	00..7F	Send Vari. To Reverb	-∞..0..+6dB(0..96..127)	00
		59	1	00..7F	Send Vari. To Chorus	-∞..0..+6dB(0..96..127)	00
		5A	1	00..01	Variation Connection	0:insertion,1:system	00
		5B	1	00..1F	Variation Part	part1..32(0..31),off(127)	7F
		5C	1	01..7F	MW Vari. Ctrl Depth	-63..+63	40
		5D	1	01..7F	PB Vari. Ctrl Depth	-63..+63	40
		5E	1	01..7F	CAT Vari. Ctrl Depth	-63..+63	40
		5F	1	01..7F	Not Used		
		60	1	01..7F	Not Used		
TOTAL SIZE 21							

02 01 70	1	00..7F	Variation Parameter 11	option Parameter	Depend on Variation Type
71	1	00..7F	Variation Parameter 12	option Parameter	Depend on Variation Type
72	1	00..7F	Variation Parameter 13	option Parameter	Depend on Variation Type
73	1	00..7F	Variation Parameter 14	option Parameter	Depend on Variation Type
74	1	00..7F	Variation Parameter 15	option Parameter	Depend on Variation Type
75	1	00..7F	Variation Parameter 16	option Parameter	Depend on Variation Type
TOTAL SIZE	6				

< Table 1-5 >

MIDI Parameter Change table (MULTI EQ) (CVP-109/107/700)

Address (H)	Size (H)	Data (H)	Parameter Name	Description	Default Value(H)
02 40 00	1	34..4C	EQ Type	0:FLAT	0
			1:JAZZ		
			2:POPS		
			3:ROCK		
			4:CLASSIC		
01	1	34..4C	EQ Gain1	-12..+12[dB]	40
02	1	04..28	EQ Frequency1	32..2000[Hz]	0C
03	1	01..78	EQ Q1	0.1..12.0	07
04	1	00..01	EQ Shape1	00:Shelving,01:Peaking	00
05	1	34..4C	EQ Gain2	-12..+12[dB]	40
06	1	0E..36	EQ Frequency2	0.1..10[KHz]	1C
07	1	01..78	EQ Q2	0.1..12.0	07
08	1		Not Used		
09	1	34..4C	EQ Gain3	-12..+12[dB]	40
0A	1	0E..36	EQ Frequency3	0.1..10[KHz]	22
0B	1	01..78	EQ Q3	0.1..12.0	07
0C	1		Not Used		
0D	1	34..4C	EQ Gain4	-12..+12[dB]	40
0E	1	0E..36	EQ Frequency4	0.1..10[KHz]	2E
0F	1	01..78	EQ Q4	0.1..12.0	07
10	1		Not Used		
11	1	34..4C	EQ Gain5	-12..+12[dB]	40
12	1	1C..3A	EQ Frequency5	0.5..16.0[KHz]	34
13	1	01..78	EQ Q5	0.1..12.0	07
14	1	00..01	EQ Shape5	00:Shelving,01:Peaking	00
TOTAL SIZE	15				

< Table 1-6 >

MIDI Parameter Change table (EFFECT 2) (CVP-109/107/700)

Address (H)	Size (H)	Data (H)	Parameter Name	Description	Default
03 0n 00	2	00..7F	Insertion Type MSB	Refer to the Ef. Type List	
		00..7F	Insertion Type LSB	00 : basic type	
02	1	00..7F	Insertion Parameter1	Refer to the Ef. Parameter List	
03	1	00..7F	Insertion Parameter2	Refer to the Ef. Parameter List	
04	1	00..7F	Insertion Parameter3	Refer to the Ef. Parameter List	
05	1	00..7F	Insertion Parameter4	Refer to the Ef. Parameter List	
06	1	00..7F	Insertion Parameter5	Refer to the Ef. Parameter List	
07	1	00..7F	Insertion Parameter6	Refer to the Ef. Parameter List	
08	1	00..7F	Insertion Parameter7	Refer to the Ef. Parameter List	
09	1	00..7F	Insertion Parameter8	Refer to the Ef. Parameter List	
0A	1	00..7F	Insertion Parameter9	Refer to the Ef. Parameter List	
0B	1	00..7F	Insertion Parameter10	Refer to the Ef. Parameter List	
0C	1	00..7F	Insertion Part	Part1..16,OFF	
0D	1	00..7F	MW INS CTRL DPT		
0E	1	00..7F	BEND INS CTRL DPT		
0F	1	00..7F	CAT INS CTRL DPT		
10	1	00..7F	Not Used		
11	1	00..7F	Not Used		
TOTAL SIZE	12				
03 0n 20	1	00..7F	Insertion Parameter11	Refer to the Ef. Parameter List	
21	1	00..7F	Insertion Parameter12	Refer to the Ef. Parameter List	
22	1	00..7F	Insertion Parameter13	Refer to the Ef. Parameter List	
23	1	00..7F	Insertion Parameter14	Refer to the Ef. Parameter List	
24	1	00..7F	Insertion Parameter15	Refer to the Ef. Parameter List	
25	1	00..7F	Insertion Parameter16	Refer to the Ef. Parameter List	
TOTAL SIZE	06				

03	0n	30	2	00..7F	Ins. Param.1 MSB	Refer to the Ef. Parameter List
				00..7F	Ins. Param.1 LSB	Refer to the Ef. Parameter List
03	0n	32	2	00..7F	Ins. Param.2 MSB	Refer to the Ef. Parameter List
				00..7F	Ins. Param.2 LSB	Refer to the Ef. Parameter List
03	0n	34	2	00..7F	Ins. Param.3 MSB	Refer to the Ef. Parameter List
				00..7F	Ins. Param.3 LSB	Refer to the Ef. Parameter List
03	0n	36	2	00..7F	Ins. Param.4 MSB	Refer to the Ef. Parameter List
				00..7F	Ins. Param.4 LSB	Refer to the Ef. Parameter List
03	0n	38	2	00..7F	Ins. Param.5 MSB	Refer to the Ef. Parameter List
				00..7F	Ins. Param.5 LSB	Refer to the Ef. Parameter List
03	0n	3A	2	00..7F	Ins. Param.6 MSB	Refer to the Ef. Parameter List
				00..7F	Ins. Param.6 LSB	Refer to the Ef. Parameter List
03	0n	3C	2	00..7F	Ins. Param.7 MSB	Refer to the Ef. Parameter List
				00..7F	Ins. Param.7 LSB	Refer to the Ef. Parameter List
03	0n	3E	2	00..7F	Ins. Param.8 MSB	Refer to the Ef. Parameter List
				00..7F	Ins. Param.8 LSB	Refer to the Ef. Parameter List
03	0n	40	2	00..7F	Ins. Param.9 MSB	Refer to the Ef. Parameter List
				00..7F	Ins. Param.9 LSB	Refer to the Ef. Parameter List
03	0n	42	2	00..7F	Ins. Param.10 MSB	Refer to the Ef. Parameter List
				00..7F	Ins. Param.10 LSB	Refer to the Ef. Parameter List

TOTAL SIZE 14

For effect types that do not require MSB, the Parameters for Address 02-0B will be received. Address 30-42 will not be received.
For effect types that require MSB, the Parameters for Address 30-42 will be received. Address 02-0B will not be received.
When Bulk Dumps that include Effect Type data are transmitted, the Parameters for Address 02 - 0B will always be transmitted. But, effects that require MSB, when the bulk dump is received the Parameters for Address 02 - 0B will not be received.

n = Insertion Effect No. (0 - 2)

The INSERTION EFFECT Parameter cannot be reset to its factory settings with XG SYSTEM ON or XG ALL PARAMETER RESET, there is no default value.
When a Parameter Request or Bulk Request message is received, the currently set value is always transmitted.

< Table 1-7 >

MIDI PARAMETER CHANGE TABLE (SPECIAL EFFECT) (CVP-109/107/700)

Address (H)			Size (H)	Data (H)	Parameter	Description	Default
04	00	00	2	00 - 7F	Insertion Effect Type MSB	Refer to the XG Effect Map	
				00 - 7F	Insertion Effect Type LSB	00 : basic type	
		02	1	00 - 7F	Insertion Effect Parameter1	Refer to the XG Ef. Parameter List	
		03	1	00 - 7F	Insertion Effect Parameter2	Refer to the XG Ef. Parameter List	
		04	1	00 - 7F	Insertion Effect Parameter3	Refer to the XG Ef. Parameter List	
		05	1	00 - 7F	Insertion Effect Parameter4	Refer to the XG Ef. Parameter List	
		06	1	00 - 7F	Insertion Effect Parameter5	Refer to the XG Ef. Parameter List	
		07	1	00 - 7F	Insertion Effect Parameter6	Refer to the XG Ef. Parameter List	
		08	1	00 - 7F	Insertion Effect Parameter7	Refer to the XG Ef. Parameter List	
		09	1	00 - 7F	Insertion Effect Parameter8	Refer to the XG Ef. Parameter List	
		0A	1	00 - 7F	Insertion Effect Parameter9	Refer to the XG Ef. Parameter List	
		0B	1	00 - 7F	Insertion Effect Parameter10	Refer to the XG Ef. Parameter List	
		0C	1	00 - 7F	Insertion Effect Part	Part1...16(0...15) AD1(64) OFF(16...63, 65...127)	
		0D	1	00 - 7F	MW Insertion Control Depth	Don’t care	
		0E	1	00 - 7F	BEND Insertion Control Depth	Don’t care	
		0F	1	00 - 7F	CAT Insertion Control Depth	Don’t care	
		10	1	00 - 7F	AC1 Insertion Control Depth	Don’t care	
		11	1	00 - 7F	AC2 Insertion Control Depth	Don’t care	
TOTAL SIZE			12				
04	00	14	1	00 - 7F	Unique Insertion Effect External Control CH1(Harmony Channel)	1...16(0...15), off(127)	
		15	1	00 - 7F	Unique Insertion Effect External Control CH2 (MELODY CHANNEL)	1...16(0...15), off(127)	
TOTAL SIZE			2				
04	00	20	1	00 - 7F	Insertion Effect Parameter11	Refer to the XG Ef. Parameter List	
		21	1	00 - 7F	Insertion Effect Parameter12	Refer to the XG Ef. Parameter List	
		22	1	00 - 7F	Insertion Effect Parameter13	Refer to the XG Ef. Parameter List	
		23	1	00 - 7F	Insertion Effect Parameter14	Refer to the XG Ef. Parameter List	
		24	1	00 - 7F	Insertion Effect Parameter15	Refer to the XG Ef. Parameter List	
		25	1	00 - 7F	Insertion Effect Parameter16	Refer to the XG Ef. Parameter List	
TOTAL SIZE			6				

Insertion Effect Type MSB: Assigns the Harmony Mode.
If the value is not a Harmony Mode value, the Harmony function will be OFF and the input signal will be transmitted as is.
Insertion Effect Type LSB: Assigns the Harmony Kit.
If the value is not an existing harmony kit value, don’t care.
Harmony Channel: Harmony control channel.
Melody Channel: Melody play channel.
When both are received, the last message received will take priority.
For example, when the Melody Channel is 3 and the Harmony Channel 3 message is received, the Melody Channel will be OFF and the Harmony Channel will be 3.

Note) The SPECIAL EFFECT Parameter cannot be reset to its factory settings with XG SYSTEM ON or XG ALL PARAMETER RESET, there is no default value.
When a request message is received, the currently set value is always transmitted.

< Table 1-8 >

MIDI Parameter Change table (MULTI PART)

Address (H)			Size (H)	Data (H)	Parameter Name	Description	Default Value(H)
08	nn	00	1	00..20	Element Reserve	0..32	0(Part10),2(Others)
	nn	01	1	00..7F	Bank Select MSB	0..127	7F(Part10),00(Others)
	nn	02	1	00..7F	Bank Select LSB	0..127	00
	nn	03	1	00..7F	Program Number	1..128	00
	nn	04	1	00..0F, 7F	Rcv Channel	0..16;1..16,127;off	Part No.
	nn	05	1	00..01	Mono/Poly Mode	0:mono,1:poly	01
	nn	06	1	00..02	Same Note Number Key On Assign	0:single 1:multi 2:inst (for DRUM)	01
	nn	07	1	00..02	Part Mode	0:normal 1..3:drum thru,drum1..2	00 (Except Part10) 02 (Part10)
	nn	08	1	28..58	Note Shift	-24..+24[semitones]	40
	nn	09	2	00..FF	Detune	-12.8..+12.7[Hz]	08 00
	nn	0A				1st bit3..0 -> bit7..4 2nd bit3..0 -> bit3..0	(80)
	nn	0B	1	00..7F	Volume	0..127	64
	nn	0C	1	00..7F	Velocity Sense Depth	0..127	40
	nn	0D	1	00..7F	Velocity Sense Offset	0..127	40
	nn	0E	1	00..7F	Pan	0:random L63..C..R63(1..64..127)	40
	nn	0F	1	00..7F	Note Limit Low	C-2..G8	00
	nn	10	1	00..7F	Note Limit High	C-2..G8	7F
	nn	11	1	00..7F	Dry Level	0..127	7F
	nn	12	1	00..7F	Chorus Send	0..127	00
	nn	13	1	00..7F	Reverb Send	0..127	28
	nn	14	1	00..7F	Variation Send	0..127	00
	nn	15	1	00..7F	Vibrato Rate	-64..+63	40
	nn	16	1	00..7F	Vibrato Depth	-64..+63	40
	nn	17	1	00..7F	Vibrato Delay	-64..+63	40
	nn	18	1	00..7F	Filter Cutoff Freq.	-64..+63	40
	nn	19	1	00..7F	Filter Resonance	-64..+63	40
	nn	1A	1	00..7F	EG Attack Time	-64..+63	40
	nn	1B	1	00..7F	EG Decay Time	-64..+63	40
	nn	1C	1	00..7F	EG Release Time	-64..+63	40
	nn	1D	1	28..58	MW Pitch Control	-24..+24[semitones]	40
	nn	1E	1	00..7F	MW Filter Control	-9600..+9450[cent]	40
	nn	1F	1	00..7F	MW Amp. Control	-100..+100[%]	40
	nn	20	1	00..7F	MW LFO PMod Depth	0..127	0A
	nn	21	1	00..7F	MW LFO FMod Depth	0..127	00
	nn	22	1	00..7F	MW LFO AMod Depth	0..127	00
	nn	23	1	28..58	Bend Pitch Control	-24..+24[semitones]	42
	nn	24	1	00..7F	Bend Filter Control	-9600..+9450[cent]	40
	nn	25	1	00..7F	Bend Amp. Control	-100..+100[%]	40
	nn	26	1	00..7F	Bend LFO PMod Depth	0..127	00
	nn	27	1	00..7F	Bend LFO FMod Depth	0..127	00
	nn	28	1	00..7F	Bend LFO AMod Depth	0..127	00
TOTAL SIZE			29				
	nn	30	1		Not Used		
		:	:		:		
	nn	34	1		Not Used		
	nn	35	1	00..01	Rcv Note Message (CVP-109/107/700)	OFF, ON	01
	nn	36	1		Not Used		
		:	:		:		
	nn	40	1		Not Used		
	nn	41	1	00..7F	Scale Tuning C	-64..+63[cent]	40
	nn	42	1	00..7F	Scale Tuning C#	-64..+63[cent]	40
	nn	43	1	00..7F	Scale Tuning D	-64..+63[cent]	40
	nn	44	1	00..7F	Scale Tuning D#	-64..+63[cent]	40
	nn	45	1	00..7F	Scale Tuning E	-64..+63[cent]	40
	nn	46	1	00..7F	Scale Tuning F	-64..+63[cent]	40
	nn	47	1	00..7F	Scale Tuning F#	-64..+63[cent]	40
	nn	48	1	00..7F	Scale Tuning G	-64..+63[cent]	40
	nn	49	1	00..7F	Scale Tuning G#	-64..+63[cent]	40
	nn	4A	1	00..7F	Scale Tuning A	-64..+63[cent]	40
	nn	4B	1	00..7F	Scale Tuning A#	-64..+63[cent]	40
	nn	4C	1	00..7F	Scale Tuning B	-64..+63[cent]	40

nn 4D	1	28..58	CAT Pitch Control	-24..+24[semitones]	40
nn 4E	1	00..7F	CAT Filter Control	-9600..+9450[cent]	40
nn 4F	1	00..7F	CAT Amplitude Control	-100..+100[%]	40
nn 50	1	00..7F	CAT LFO PMod Depth	0..127	00
nn 51	1	00..7F	CAT LFO FMod Depth	0..127	00
nn 52	1	00..7F	CAT LFO AMod Depth	0..127	00
nn 53			Not Used		
:			:		
66			Not Used		
nn 67	1	00..01	Portamento Switch	off/on	00
nn 68	1	00..7F	Portamento Time	0..127	00
nn 69			Not Used		
:			:		
6E			Not Used		
TOTAL SIZE	3F				
08 nn 70	1		Not Used	Don’t care	
nn 71	1		Not Used	Don’t care	
nn 72	1	00 - 7F	EQ Bass (CVP-109/107/700)	-64 - +63(-12 - +12[dB])	40
nn 73	1	00 - 7F	EQ Treble (CVP-109/107/700)	-64 - +63(-12 - +12[dB])	40
TOTAL SIZE	04				
08 nn 74	1		Not Used	Don’t care	
75	1		Not Used	Don’t care	
76	1	04 - 28	EQ Bass frequency (CVP-109/107/700)	32-2.0k[Hz]	0C
77	1	1C - 3A	EQ Treble frequency (CVP-109/107/700)	500-16.0k[Hz]	36
78	1		Not Used	Don’t care	
79	1		Not Used	Don’t care	
7A	1		Not Used	Don’t care	
7B	1		Not Used	Don’t care	
7C	1		Not Used	Don’t care	
7D	1		Not Used	Don’t care	
7E	1		Not Used	Don’t care	
7F	1		Not Used	Don’t care	
TOTAL SIZE	0C				

nn = PartNumber

If there is a Drum Voice assigned to the Part, the following parameters are ineffective.

- Bank Select LSB
- Pitch EG
- Portamento
- Soft Pedal
- Mono/Poly
- Scale Tuning

<Table 1-9 >

MIDI Parameter Change Table (A/D Part) (CVP-109/107/700)

Address (H)	Size (H)	Data (H)	Parameter	Description	Default value(H)
10 nn 0	1	00 - 01	Input Gain	Don’t care	
1	1	00 - 7F	Bank Select MSB	Don’t care	
2	1	00 - 7F	Bank Select LSB	Don’t care	
3	1	00 - 7F	Program Nummber	Don’t care	
4	1	00 - 1F, 7F	Rcv Channel	A1 - A16, OFF	
5	1		Not Used		
6	1		Not Used		
7	1		Not Used		
8	1		Not Used		
9	1		Not Used		
0A	1		Not Used		
0B	1	00 - 7F	Volume	0 - 127	
0C	1		Not Used		
0D	1		Not Used		
0E	1	01 - 7F	Pan	L63...C...R63(1...64...127)	
0F	1		Not Used		
10	1		Not Used		
11	1	00 - 7F	Dry Level	0 - 127	
12	1	00 - 7F	Chorus Send	0 - 127	
13	1	00 - 7F	Reverb Send	0 - 127	
14	1	00 - 7F	Variation Send	0 - 127	
TOTAL SIZE	15				

nn:A/D Part number (fixed 00)

Note) The A/D PART Parameter cannot be reset to its factory settings with XG SYSTEM ON or XG ALL PARAMETER RESET, there is no default value.
When a request message is received, the currently set value is always transmitted.

<Table 1-10 >

MIDI Parameter Change table (DRUM SETUP)

Address (H)			Size (H)	Data (H)	Parameter Name	Description	Default Value(H)
3n	rr	00	1	00..7F	Pitch Coarse	-64..+63	40
3n	rr	01	1	00..7F	Pitch Fine	-64..+63[cent]	40
3n	rr	02	1	00..7F	Level	0..127	Depend on the Note
3n	rr	03	1	00..7F	Alternate Group	0:off,1..127	Depend on the Note
3n	rr	04	1	00..7F	Pan	0:random L63..C..R63(1..64..127)	Depend on the Note
3n	rr	05	1	00..7F	Reverb Send Level	0..127	Depend on the Note
3n	rr	06	1	00..7F	Chorus Send Level	0..127	Depend on the Note
3n	rr	07	1	00..7F	Variation Send Level	0..127	7F
3n	rr	08	1	00..01	Key Assign	0:single,1:multi	00
3n	rr	09	1	00..01	Rcv Note Off	off/on	Depend on the Note
3n	rr	0A	1	00..01	Rcv Note On	off/on	01
3n	rr	0B	1	00..7F	Filter Cutoff Freq.	-64..63	40
3n	rr	0C	1	00..7F	Filter Resonance	-64..63	40
3n	rr	0D	1	00..7F	EG Attack Rate	-64..63	40
3n	rr	0E	1	00..7F	EG Decay1 Rate	-64..63	40
3n	rr	0F	1	00..7F	EG Decay2 Rate	-64..63	40
TOTAL SIZE 10							

n:Drum Setup Number(0 - 1)
rr:note number(0DH - 5BH)
If XG SYSTEM ON and/or GM SYSTEM ON message is received, all Drum Setup Parameter will be reset to default values.
According to the Drum Setup Reset message, individual Drum Setup Parameters can be reset to default values.

<Table 1-11 > CVP-109/107/700 Effect Map

If the received value does not contain an effect type in the TYPE LSB, the LSB will be directed to TYPE 0.
The panel effects are marked by "*".

REVERB TYPE

TYPE MSB		TYPE LSB												
DEC	HEX	00	01	02	03	...	07	08	...	16	17	18	19	20
000	0	NO EFFECT												
001	1	*HALL1	HALL2							*HALL2	*HALL3	*HALL4		
002	2	ROOM1	ROOM2	ROOM3						*ROOM1	*ROOM2	*ROOM3	*ROOM4	
003	3	STAGE1	STAGE2							*STAGE1	*STAGE2			
004	4	PLATE								*PLATE1	*PLATE2			
005	5	NO EFFECT												
:	:	:												
015	F	NO EFFECT												
016	10	WHITE ROOM												
017	11	TUNNEL												
018	12	CANYON												
019	13	BASEMENT												
020	14	NO EFFECT												
:	:	:												
127	7F	NO EFFECT												

CHORUS TYPE

TYPE MSB		TYPE LSB												
DEC	HEX	00	01	02	03	...	07	08	...	16	17	18	19	20
000	0	NO EFFECT												
001	1	NO EFFECT												
:	:	:												
064	40	NO EFFECT												
065	41	CHORUS1	CHORUS2	*CHORUS5				CHORUS4						
066	42	CELESTE1	*CHORUS4	CELESTE3				*CHORUS2		*CHORUS3	*CHORUS1			
067	43	FLANGER 1	*FLANGER 4					*FLANGER1		*FLANGER2	*FLANGER3			
068	44	SYMPHONIC								Symphonic				
069	45	NO EFFECT												
:	:	:												
071	47	NO EFFECT												
072	48	PHASER 1												
073	49	NO EFFECT												
:	:	:												
086	56	NO EFFECT												
087	57	ENSEMBLE DETUNE												
088	58	NO EFFECT												
:	:	:												
127	7F	NO EFFECT												

VARIATION TYPE(0 – 63)

TYPE MSB		TYPE LSB												
DEC	HEX	00	01	02	03	...	07	08	...	16	17	18	19	20
000	0	NO EFFECT												
001	1	HALL	HALL2							HALL	HALL	HALL		
002	2	ROOM1	ROOM2	ROOM3						ROOM	ROOM	ROOM	ROOM	
003	3	STAGE1	STAGE2							STAGE	STAGE			
004	4	PLATE								PLATE	PLATE			
005	5	DELAY L,C,R								DELAY LCR				
006	6	DELAY LR												
007	7	ECHO												
008	8	CROSS DELAY												
009	9	EARLY REF1	EARLY REF											
010	A	GATE REVERB												
011	B	REVERSE GATE												
012	C	NO EFFECT or THRU												
:	:	:												
015	F	NO EFFECT or THRU												
016	10	WHITE ROOM												
017	11	TUNNEL												
018	12	CANYON												
019	13	BASEMENT												
020	14	KARAOKE 1	KARAOKE 2	KARAOKE 3										
021	15	NO EFFECT or THRU												
:	:	:												
063	3F	NO EFFECT or THRU												

VARIATION TYPE(64 – 127)

TYPE MSB		TYPE LSB												
DEC	HEX	00	01	02	03	...	07	08	...	16	17	18	19	20
064	40	THRU												
065	41	CHORUS1	CHORUS2	CHORUS				CHORUS4						
066	42	CELESTE1	CHORUS	CELESTE3				CHORUS		CHORUS	CHORUS	Rotary Sp		
067	43	FLANGER 1	FLANGER					FLANGER		FLANGER	FLANGER			
068	44	SYMPHONIC								SYMPHONIC				
069	45	ROTARY SP.								ROTARY SP				
070	46	TREMOLO								TREMOLO	ROTARY SP			
071	47	AUTO PAN								AUTO PAN	ROTARY SP	ROTARY SP	TREMOLO	GTR TREMOLO
072	48	PHASER						PHASER 2						
073	49	DISTORTION	COMP+ DISTORTION											
074	4A	OVER DRIVE												
075	4B	AMP SIM.								DIST HARD	DIST SOFT			
076	4C	3BAND EQ								EQ DISCO	EQ TEL			
077	4D	2BAND EQ												
078	4E	AUTO WAH	AUTO WAH+ DIST	AUTO WAH+ OVERDRIVE						AUTO WAH				
079	4F	THRU												
080	50	PITCH CHANGE1	PITCH CHANGE2											
081	51	HARMONIC ENHANCER												
082	52	TOUCH WAH 1	TOUCH WAH+ DIST	TOUCH WAH+ OVERDRIVE				TOUCH WAH 2						
083	53	COMPRESSOR												
084	54	NOISE GATE												
085	55	VOICE CANCEL												
086	56	2WAY ROTARY SP												
087	57	ENSEMBLE DETUNE												
088	58	AMBIENCE												
089	59	THRU												
:	:													
092	5C	THRU												
093	5D	TALKING MODULATOR												
094	5E	LO-FI												
095	5F	DIST+DELAY	OVERDRIVE+ DELAY											
096	60	COMP+DIST+DELAY	COMP+ OVERDRIVE+ DELAY											
097	61	WAH+DIST+DELAY	WAH+ OVERDRIVE+ DELAY											
098	62	THRU												
:	:													
127	7F	THRU												

INSERTION TYPE

TYPE MSB		TYPE LSB												
DEC	HEX	00	01	02	03	...	07	08	...	16	17	18	19	20
000	0	THRU												
001	1	*HALL1	HALL 2							*HALL2	*HALL3	*HALL4		
002	2	ROOM 1	ROOM 2	ROOM 3						*ROOM1	*ROOM2	*ROOM3	*ROOM4	
003	3	STAGE 1	STAGE 2							*STAGE1	*STAGE2			
004	4	PLATE								*PLATE1	*PLATE2			
005	5	DELAY L,C,R								*DELAY LCR				
006	6	*DELAY LR												
007	7	*ECHO												
008	8	*CROSS DELAY												
009	9	THRU												
:	:	:												
019	13	THRU												
020	14	*KARAOKE1	*KARAOKE2	*KARAOKE3										
021	15	THRU												
:	:	:												
063	3F	THRU												
064	40	THRU												
065	41	CHORUS 1	CHORUS 2	*CHORUS5				CHORUS 4						
066	42	CELESTE 1	*CHORUS4	CELESTE 3				*CHORUS2		*CHORUS3	*CHORUS1	*ROTARY SP5		
067	43	FLANGER 1	*FLANGER4					*FLANGER1		*FLANGER2	*FLANGER3			
068	44	*SYMPHONIC2								*SYMPHONIC1				
069	45	ROTARY SPEAKER 1								*ROTARY SP1				
070	46	TREMOLO								*TREMOLO1	*ROTARY SP4			
071	47	*AUTO PAN2								*AUTO PAN1	*ROTARY SP2	*ROTARY SP3	*TREMOLO2	*GTR TREMOLO
072	48	*PHASER												
073	49	DISTORTION												
074	4A	OVER DRIVE												
075	4B	*AMP SIMULATOR								*DIST HARD	*DIST SOFT			
076	4C	3BAND EQ								*EQ DISCO	*EQ TEL			
077	4D	2-BAND EQ												
078	4E	*AUTO WAH2								*AUTO WAH1				
079	4F	THRU												
080	50	THRU												
081	51	HARMONIC ENHANCER												
082	52	*TOUCH WAH1						*TOUCH WAH2						
083	53	COMPRESSOR												
084	54	NOISE GATE												
085	55	THRU												
086	56	THRU												
087	57	ENSEMBLE DETUNE												
088	58	THRU												
:	:	:												
127	7F	THRU												

<Table 1-12 > CVP-105/103 Effect Map

If the received value does not contain an effect type in the TYPE LSB, the LSB will be directed to TYPE 0.
The panel effects are marked by “*”.

REVERB TYPE

TYPE MSB		TYPE LSB												
DEC	HEX	00	01	02	03	...	07	08	...	16	17	18	19	20
000	0	NO EFFECT												
001	1	*HALL1	HALL2							*HALL2	*HALL3	*HALL4		
002	2	ROOM1	ROOM2	ROOM3						*ROOM1	*ROOM2	*ROOM3	*ROOM4	
003	3	STAGE1	STAGE2							*STAGE1	*STAGE2			
004	4	PLATE								*PLATE1	*PLATE2			
005	5	NO EFFECT												
:	:	:												
015	F	NO EFFECT												
016	10	WHITE ROOM												
017	11	TUNNEL												
018	12	CANYON												
019	13	BASEMENT												
020	14	NO EFFECT												
:	:	:												
127	7F	NO EFFECT												

CHORUS TYPE

TYPE MSB		TYPE LSB												
DEC	HEX	00	01	02	03	...	07	08	...	16	17	18	19	20
000	0	NO EFFECT												
001	1	NO EFFECT												
:	:	:												
064	40	NO EFFECT												
065	41	CHORUS1	CHORUS2	*CHORUS5				CHORUS4						
066	42	CELESTE1	*CHORUS4	CELESTE3				*CHORUS2		*CHORUS3	*CHORUS1			
067	43	FLANGER 1	*FLANGER 4					*FLANGER1		*FLANGER2	*FLANGER3			
068	44	NO EFFECT												
:	:	:												
127	7F	NO EFFECT												

VARIATION TYPE(0 – 63)

TYPE MSB		TYPE LSB												
DEC	HEX	00	01	02	03	...	07	08	...	16	17	18	19	20
000	0	NO EFFECT												
001	1	*HALL1	HALL2							*HALL2	*HALL3	*HALL4		
002	2	ROOM1	ROOM2	ROOM3						*ROOM1	*ROOM2	*ROOM3	*ROOM4	
003	3	STAGE1	STAGE2							*STAGE1	*STAGE2			
004	4	PLATE								*PLATE1	*PLATE2			
005	5	DELAY L,C,R								*DELAY LCR				
006	6	*DELAY LR												
007	7	*ECHO												
008	8	*CROSS DELAY												
009	9	*EARLY REF1	*EARLY REF2											
010	A	*GATE REVERB												
011	B	*REVERSE GATE												
012	C	NO EFFECT or THRU												
:	:	:												
019	13	NO EFFECT or THRU												
020	14	KARAOKE 1	KARAOKE 2	KARAOKE 3										
021	15	NO EFFECT or THRU												
:	:	:												
063	3F	NO EFFECT or THRU												

VARIATION TYPE(64 – 127)

TYPE MSB		TYPE LSB												
DEC	HEX	00	01	02	03	...	07	08	...	16	17	18	19	20
064	40	THRU												
065	41	CHORUS1	CHORUS2	*CHORUS5				CHORUS4						
066	42	CELESTE1	*CHORUS4	CELESTE3				*CHORUS2		*CHORUS3	*CHORUS1	*Rotary Sp5		
067	43	FLANGER 1	*FLANGER4					*FLANGER1		*FLANGER2	*FLANGER3			
068	44	SYMPHONIC								*SYMPHONIC				
069	45	ROTARY SP.								*ROTARY SP1				
070	46	TREMOLO								*TREMOLO1	*ROTARY SP4			
071	47	AUTO PAN								*AUTO PAN	*ROTARY SP2	*ROTARY SP3	*TREMOLO2	*GTR TREMOLO
072	48	*PHASER						PHASER 2						
073	49	DISTORTION												
074	4A	OVER DRIVE												
075	4B	AMP SIM.								*DIST HARD	*DIST SOFT			
076	4C	3BAND EQ								*EQ DISCO	*EQ TEL			
077	4D	2BAND EQ												
078	4E	AUTO WAH								*AUTO WAH				
079	4F	THRU												
:	:													
127	7F	THRU												

<Table 1-13 > Effect Parameter List

XG Effect Name
HALL1,HALL2
ROOM1,ROOM2,ROOM3
STAGE1,STAGE2
PLATE (reverb, variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Reverb Time	0.3–30.0s	0–69	table#4		
2	Diffusion	0–10	0–10			
3	Initial Delay	0.1mS–99.3mS	0–63	table#5		
4	HPF Cutoff	Thru–8.0kHz	0–52	table#3		
5	LPF Cutoff	1.0k–Thru	34–60	table#3		
6						
7						
8						
9						
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11	Rev Delay	0.1mS–99.3mS	0–63	table#5		
12	Density	0–4 (reverb, variation block)	0–4		CVP-109/107/700	
		0–3 (reverb, variation block)	0–3		CVP-105/103	
		0–2 (insertion block)	0–2		CVP-109/107/700 only	
13	Er/Rev Balance	E63>R – E=R – E<R63	1–127			
14	High Damp	0.1–1.0	1–10		CVP-109/107/700 only	
15	Feedback Level	-63–+63	1–127			
16						

WHITE ROOM
TUNNEL
CANYON
BASEMENT (reverb, variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Reverb Time	0.3–30.0s	0–69	table#4		
2	Diffusion	0–10	0–10			
3	Initial Delay	0.1mS–99.3mS	0–63	table#5		
4	HPF Cutoff	Thru–8.0kHz	0–52	table#3		
5	LPF Cutoff	1.0k–Thru	34–60	table#3		
6	Width	0.5–10.2m	0–37	table#11		
7	Heigt	0.5–20.2m	0–73	table#11		
8	Depth	0.5–30.2m	0–104	table#11		
9	Wall Vary	0–30	0–30			
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11	Rev Delay	0.1mS–99.3mS	0–63	table#5		
12	Density	0–4	0–4		CVP-109/107/700	
		0–3	0–3		CVP-105/103	
13	Er/Rev Balance	E63>R – E=R – E<R63	1–127			
14	High Damp	0.1–1.0	1–10		CVP-109/107/700 only	
15	Feedback Level	-63–+63	1–127			
16						

DELAY L,C,R (variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Lch Delay	0.1–715.0ms (variation block)	1–7150			
		0.1–715.0ms (Insertion block)	1–7150		CVP-109/107/700 only	
2	Rch Delay	0.1–715.0ms (variation block)	1–7150			
		0.1–715.0ms (Insertion block)	1–7150		CVP-109/107/700 only	
3	Cch Delay	0.1–715.0ms (variation block)	1–7150			
		0.1–715.0ms (Insertion block)	1–7150		CVP-109/107/700 only	
4	Feedback Delay	0.1–715.0ms (variation block)	1–7150			
		0.1–715.0ms (Insertion block)	1–7150		CVP-109/107/700 only	
5	Feedback Level	-63–+63	1–127			
6	Cch Level	0–127	0–127			
7	High Damp	0.1–1.0	1–10			
8						
9						
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11						
12						
13	EQ Low Frequency	32Hz–2.0kHz	4–40	table#3	CVP-109/107/700	
		50Hz–2.0kHz	8–40	table#3	CVP-105/103	
14	EQ Low Gain	-12–+12dB	52–76			
15	EQ High Frequency	500Hz–16.0kHz	28–58	table#3		
16	EQ High Gain	-12–+12dB	52–76			

DELAY L,R (variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Lch Delay	0.1–715.0ms (variation block)	1–7150			
		0.1–715.0ms (Insertion block)	1–7150		CVP-109/107/700 only	
2	Rch Delay	0.1–715.0ms (variation block)	1–7150			
		0.1–715.0ms (Insertion block)	1–7150		CVP-109/107/700 only	
3	Feedback Delay 1	0.1–715.0ms (variation block)	1–7150			
		0.1–715.0ms (Insertion block)	1–7150		CVP-109/107/700 only	
4	Feedback Delay 2	0.1–715.0ms (variation block)	1–7150			
		0.1–715.0ms (Insertion block)	1–7150		CVP-109/107/700 only	
5	Feedback Level	-63–+63	1–127			
6	High Damp	0.1–1.0	1–10			
7						
8						
9						
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11						
12						
13	EQ Low Frequency	32Hz–2.0kHz	4–40	table#3	CVP-109/107/700	
		50Hz–2.0kHz	8–40	table#3	CVP-105/103	
14	EQ Low Gain	-12–+12dB	52–76			
15	EQ High Frequency	500Hz–16.0kHz	28–58	table#3		
16	EQ High Gain	-12–+12dB	52–76			

ECHO (variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Lch Delay1	0.1–355.0ms (variation block)	1–3550			
		0.1–355.0ms (insertion block)	1–3550		CVP-109/107/700 only	
2	Lch Feedback Level	-63–+63	1–127			
3	Rch Delay1	0.1–355.0ms (variation block)	1–3550			
		0.1–355.0ms (insertion block)	1–3550		CVP-109/107/700 only	
4	Rch Feedback Level	-63–+63	1–127			
5	High Damp	0.1–1.0	1–10			
6	Lch Delay2	0.1–355.0ms (variation block)	1–3550			
		0.1–355.0ms (insertion block)	1–3550		CVP-109/107/700 only	
7	Rch Delay2	0.1–355.0ms (variation block)	1–3550			
		0.1–355.0ms (insertion block)	1–3550		CVP-109/107/700 only	
8	Delay2 Level	0–127	0–127			
9						
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11						
12						
13	EQ Low Frequency	32Hz–2.0kHz	4–40	table#3	CVP-109/107/700	
		50Hz–2.0kHz	8–40	table#3	CVP-105/103	
14	EQ Low Gain	-12–+12dB	52–76			
15	EQ High Frequency	500Hz–16.0kHz	28–58	table#3		
16	EQ High Gain	-12–+12dB	52–76			

CROSS DELAY (variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	L->R Delay	0.1–355.0ms (variation block)	1–3550			
		0.1–355.0ms (insertion block)	1–3550		CVP-109/107/700 only	
2	R->L Delay	0.1–355.0ms (variation block)	1–3550			
		0.1–355.0ms (insertion block)	1–3550		CVP-109/107/700 only	
3	Feedback Level	-63–+63	1–127			
4	Input Select	L,R,L&R	0–2			
5	High Damp	0.1–1.0	1–10			
6						
7						
8						
9						
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11						
12						
13	EQ Low Frequency	32Hz–2.0kHz	4–40	table#3	CVP-109/107/700	
		50Hz–2.0kHz	8–40	table#3	CVP-105/103	
14	EQ Low Gain	-12–+12dB	52–76			
15	EQ High Frequency	500Hz–16.0kHz	28–58	table#3		
16	EQ High Gain	-12–+12dB	52–76			

EARLY REF1,EARLY REF2(variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Type	S-H, L-H, Rdm, Rvs, Plt, Spr	0–5			
2	Room Size	0.1–7.0	0–44	table#6		
3	Diffusion	0–10	0–10			
4	Initial Delay	0.1mS–99.3mS	0–63	table#5		
5	Feedback Level	-63–+63	1–127			
6	HPF Cutoff	Thru–8.0kHz	0–52	table#3		
7	LPF Cutoff	1.0k–Thru	34–60	table#3		
8						
9						
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11	Liveness	0–10	0–10			
12	Density	0–3	0–3			
13	High Damp	0.1–1.0	1–10			
14						
15						
16						

GATE REVERB
REVERSE GATE (variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Type	TypeA,TypeB	0–1			
2	Room Size	0.1–20.0	0–127	table#6		
3	Diffusion	0–10	0–10			
4	Initial Delay	0.1mS–200.0mS	0–127	table#5		
5	Feedback Level	-63–+63	1–127			
6	HPF Cutoff	Thru–8.0kHz	0–52	table#3		
7	LPF Cutoff	1.0k–Thru	34–60	table#3		
8						
9						
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11	Liveness	0–10	0–10			
12	Density	0–3	0–3			
13	High Damp	0.1–1.0	1–10			
14						
15						
16						

KARAOKE1,2,3 (variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Delay Time	0.1mS–400.0mS	0–127	table#7		
2	Feedback Level	-63–+63	1–127			
3	HPF Cutoff	Thru–8.0kHz	0–52	table#3		
4	LPF Cutoff	1.0k–Thru	34–60	table#3		
5						
6						
7						
8						
9						
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11						
12						
13						
14						
15						
16						

CHORUS1,2,3,4
CELESTE1,2,3,4 (chorus, variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	LFO Frequency	0.00Hz–39.7Hz	0–127	table#1		
2	LFO Depth	0–127	0–127			
3	Feedback Level	-63–+63	1–127			
4	Delay Offset	0.0mS–50mS	0–127	table#2		
5						
6	EQ Low Frequency	32Hz–2.0kHz	4–40	table#3	CVP-109/107/700	
		50Hz–2.0kHz	8–40	table#3	CVP-105/103	
7	EQ Low Gain	-12–+12dB	52–76			
8	EQ High Frequency	500Hz–16.0kHz	28–58	table#3		
9	EQ High Gain	-12–+12dB	52–76			
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11	EQ Mid Frequency	100Hz–10.0kHz (variation block)	14–54	table#3	CVP-109/107/700 only	
12	EQ Mid Gain	-12–+12dB (variation block)	52–76		CVP-109/107/700 only	
13	EQ Mid Width	1.0–12.0 (variation block)	10–120		CVP-109/107/700 only	
14						
15	Input Mode	mono/stereo	0–1			
16						

FLANGER1,2,3 (chorus, variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	LFO Frequency	0.00Hz–39.7Hz	0–127	table#1		
2	LFO Depth	0–127	0–127			
3	Feedback Level	-63–+63	1–127			
4	Delay Offset	0.0mS–50mS	0–127	table#2		
5						
6	EQ Low Frequency	32Hz–2.0kHz	4–40	table#3	CVP-109/107/700	
		50Hz–2.0kHz	8–40	table#3	CVP-105/103	
7	EQ Low Gain	-12–+12dB	52–76			
8	EQ High Frequency	500Hz–16.0kHz	28–58	table#3		
9	EQ High Gain	-12–+12dB	52–76			
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11	EQ Mid Frequency	100Hz–10.0kHz (variation block)	14–54	table#3	CVP-109/107/700 only	
12	EQ Mid Gain	-12–+12dB (variation block)	52–76		CVP-109/107/700 only	
13	EQ Mid Width	1.0–12.0 (variation block)	10–120		CVP-109/107/700 only	
14	LFO Phase Difference	-180–+180deg(resolution=3deg.)	4–124			
15						
16						

SYMPHONIC (chorus, variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	LFO Frequency	0.00Hz–39.7Hz	0–127	table#1		
2	LFO Depth	0–127	0–127			
3	Delay Offset	0.0mS–50mS	0–127	table#2		
4						
5						
6	EQ Low Frequency	32Hz–2.0kHz	4–40	table#3	CVP-109/107/700	
		50Hz–2.0kHz	8–40	table#3	CVP-105/103	
7	EQ Low Gain	-12–+12dB	52–76			
8	EQ High Frequency	500Hz–16.0kHz	28–58	table#3		
9	EQ High Gain	-12–+12dB	52–76			
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11	EQ Mid Frequency	100Hz–10.0kHz (variation block)	14–54	table#3	CVP-109/107/700 only	
12	EQ Mid Gain	-12–+12dB (variation block)	52–76		CVP-109/107/700 only	
13	EQ Mid Width	1.0–12.0 (variation block)	10–120		CVP-109/107/700 only	
14						
15						
16						

ENSEMBLE DETUNE (chorus, variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Detune	-50–+50cent	14–114			
2	Lch Init Delay	0.0mS–50mS	0–127	table#2		
3	Rch Init Delay	0.0mS–50mS	0–127	table#2		
4						
5						
6						
7						
8						
9						
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11	EQ Low Frequency	32Hz–2.0kHz (variation, insertion block)	4–40	table#3	CVP-109/107/700 only	
12	EQ Low Gain	-12–+12dB (variation, insertion block)	52–76		CVP-109/107/700 only	
13	EQ High Frequency	500Hz–16.0kHz (variation, insertion block)	28–58	table#3	CVP-109/107/700 only	
14	EQ High Gain	-12–+12dB (variation, insertion block)	52–76		CVP-109/107/700 only	
15						
16						

AMBIENCE (variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Delay Time	0.0mS–50mS	0–127	table#2		
2	Output Phase	normal/invers	0–1			
3						
4						
5						
6	EQ Low Frequency	32Hz–2.0kHz	4–40	table#3		
7	EQ Low Gain	-12–+12dB	52–76			
8	EQ High Frequency	500Hz–16.0kHz	28–58	table#3		
9	EQ High Gain	-12–+12dB	52–76			
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11						
12						
13						
14						
15						
16						

ROTARY SPEAKER (variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	LFO Frequency	0.00Hz–39.7Hz	0–127	table#1		●
2	LFO Depth	0–127	0–127			
3						
4						
5						
6	EQ Low Frequency	32Hz–2.0kHz	4–40	table#3	CVP-109/107/700	
		50Hz–2.0kHz	8–40	table#3	CVP-105/103	
7	EQ Low Gain	-12–+12dB	52–76			
8	EQ High Frequency	500Hz–16.0kHz	28–58	table#3		
9	EQ High Gain	-12–+12dB	52–76			
10	Dry/Wet	D63>W – D=W – D<W63	1–127			
11	EQ Mid Frequency	100Hz–10.0kHz (variation block)	14–54	table#3	CVP-109/107/700 only	
12	EQ Mid Gain	-12–+12dB (variation block)	52–76		CVP-109/107/700 only	
13	EQ Mid Width	1.0–12.0 (variation block)	10–120		CVP-109/107/700 only	
14						
15						
16						

2WAY ROTARY SPEAKER (variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Rotor Speed	0.0Hz–39.7Hz	0–127	table#1		●
2	Drive Low	0–127	0–127			
3	Drive High	0–127	0–127			
4	Low/High	L63>H – L=H – L<H63	1–127			
5						
6	EQ Low Frequency	32Hz–2.0kHz	4–40	table#3		
7	EQ Low Gain	-12–+12dB	52–76			
8	EQ High Frequency	500Hz–16.0kHz	28–58	table#3		
9	EQ High Gain	-12–+12dB	52–76			
10						
11	Crossover Frequency	100Hz–10.0kHz	14–54	table#3		
12	Mic L-R Angle	0deg–180deg(resolution=3deg.)	0–60			
13						
14						
15						
16						

TREMOLO (variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	LFO Frequency	0.00Hz–39.7Hz	0–127	table#1		●
2	AM Depth	0–127	0–127			
3	PM Depth	0–127	0–127			
4						
5						
6	EQ Low Frequency	32Hz–2.0kHz	4–40	table#3	CVP-109/107/700	
		50Hz–2.0kHz	8–40	table#3	CVP-105/103	
7	EQ Low Gain	-12–+12dB	52–76			
8	EQ High Frequency	500Hz–16.0kHz	28–58	table#3		
9	EQ High Gain	-12–+12dB	52–76			
10						
11	EQ Mid Frequency	100Hz–10.0kHz (variation block)	14–54	table#3	CVP-109/107/700 only	
12	EQ Mid Gain	-12–+12dB (variation block)	52–76		CVP-109/107/700 only	
13	EQ Mid Width	1.0–12.0 (variation block)	10–120		CVP-109/107/700 only	
14	LFO Phase Difference	-180–+180deg(resolution=3deg.)	4–124			
15	Input Mode	mono/stereo	0–1			
16						

AUTO PAN (variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	LFO Frequency	0.00Hz–39.7Hz	0–127	table#1		●
2	L/R Depth	0–127	0–127			
3	F/R Depth	0–127	0–127			
4	PAN Direction	L<->R,L->R,L<-R,Lturn,Rturn,L/R	0–5			
5						
6	EQ Low Frequency	32Hz–2.0kHz	4–40	table#3	CVP-109/107/700	
		50Hz–2.0kHz	8–40	table#3	CVP-105/103	
7	EQ Low Gain	-12–+12dB	52–76			
8	EQ High Frequency	500Hz–16.0kHz	28–58	table#3		
9	EQ High Gain	-12–+12dB	52–76			
10						
11	EQ Mid Frequency	100Hz–10.0kHz (variation block)	14–54	table#3	CVP-109/107/700 only	
12	EQ Mid Gain	-12–+12dB (variation block)	52–76		CVP-109/107/700 only	
13	EQ Mid Width	1.0–12.0 (variation block)	10–120		CVP-109/107/700 only	
14						
15						
16						

PHASER 1 (chorus, variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	LFO Frequency	0.00Hz–39.7Hz	0–127	table#1		
2	LFO Depth	0–127	0–127			
3	Phase Shift Offset	0–127	0–127			
4	Feedback Level	-63–+63	1–127			
5						
6	EQ Low Frequency	32Hz–2.0kHz	4–40	table#3	CVP-109/107/700	
		50Hz–2.0kHz	8–40	table#3	CVP-105/103	
7	EQ Low Gain	-12–+12dB	52–76			
8	EQ High Frequency	500Hz–16.0kHz	28–58	table#3		
9	EQ High Gain	-12–+12dB	52–76			
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11	Stage	4,5,6 (chorus, insertion block)	4–6		CVP-109/107/700 only	
		4–12 (variation block)	4–12		CVP-109/107/700	
		6–10 (variation block)	6–10		CVP-105/103	
12	Diffusion	mono/stereo	0–1			
13						
14						
15						
16						

PHASER 2 (variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	LFO Frequency	0.00Hz–39.7Hz	0–127	table#1		
2	LFO Depth	0–127	0–127			
3	Phase Shift Offset	0–127	0–127			
4	Feedback Level	-63–+63	1–127			
5						
6	EQ Low Frequency	32Hz–2.0kHz	4–40	table#3	CVP-109/107/700	
		50Hz–2.0kHz	8–40	table#3	CVP-105/103	
7	EQ Low Gain	-12–+12dB	52–76			
8	EQ High Frequency	500Hz–16.0kHz	28–58	table#3		
9	EQ High Gain	-12–+12dB	52–76			
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11	Stage	3,4,5,6	3–6		CVP-109/107/700	
12		3,4,5	3–5		CVP-105/103	
13	LFO Phase Difference	-180deg–+180deg (resolution=3deg.)	4–124			
14						
15						
16						

DISTORTION
OVERDRIVE (variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Drive	0–127	0–127			●
2	EQ Low Frequency	32Hz–2.0kHz	4–40	table#3	CVP-109/107/700	
		50Hz–2.0kHz	8–40	table#3	CVP-105/103	
3	EQ Low Gain	-12–+12dB	52–76			
4	LPF Cutoff	1.0k–Thru	34–60	table#3		
5	Output Level	0–127	0–127			
6						
7	EQ Mid Frequency	100Hz–10.0kHz	14–54	table#3	CVP-109/107/700	
		500Hz–10.0kHz	28–54	table#3	CVP-105/103	
8	EQ Mid Gain	-12–+12dB	52–76			
9	EQ Mid Width	1.0–12.0	10–120			
10	Dry/Wet	D63>W – D=W – D<W63	1–127			
11	Edge(Clip Curve)	0–127	0–127	mild–sharp		
12						
13						
14						
15						
16						

COMP+DIST (variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Drive	0–127	0–127			●
2	EQ Low Frequency	32Hz–2.0kHz	4–40	table#3		
3	EQ Low Gain	-12–+12dB	52–76			
4	LPF Cutoff	1.0k–Thru	34–60	table#3		
5	Output Level	0–127	0–127			
6						
7	EQ Mid Frequency	100Hz–10.0kHz	14–54	table#3		
8	EQ Mid Gain	-12–+12dB	52–76			
9	EQ Mid Width	1.0–12.0	10–120			
10	Dry/Wet	D63>W – D=W – D<W63	1–127			
11	Edge(Clip Curve)	0–127	0–127	mild–sharp		
12	Attack	1ms–40ms	0–19	table#8		
13	Release	10ms–680ms	0–15	table#9		
14	Threshold	-48dB– -6dB	79–121			
15	Ratio	1.0–20.0	0–7	table#10		
16						

AMP SIMULATOR (variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Drive	0–127	0–127			●
2	AMP Type	Off,Stack,Combo,Tube	0–3			
3	LPF Cutoff	1.0k–Thru	34–60	table#3		
4	Output Level	0–127	0–127			
5						
6						
7						
8						
9						
10	Dry/Wet	D63>W – D=W – D<W63	1–127			
11	Edge(Clip Curve)	0–127	0–127	mild–sharp		
12						
13						
14						
15						
16						

3BAND EQ(MONO) (variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	EQ Low Gain	-12–+12dB	52–76			
2	EQ Mid Frequency	100Hz–10.0kHz	14–54	table#3	CVP-109/107/700	
		500Hz–10.0kHz	28–54	table#3	CVP-105/103	
3	EQ Mid Gain	-12–+12dB	52–76			
4	EQ Mid Width	1.0–12.0	10–120			
5	EQ High Gain	-12–+12dB	52–76			
6	EQ Low Frequency	50Hz–2.0kHz	8–40	table#3		
7	EQ High Frequency	500Hz–16.0kHz	28–58	table#3		
8						
9						
10						
11						
12						
13						
14						
15	Input Mode	mono/stereo	0–1			
16						

2BAND EQ(STEREO) (variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	EQ Low Frequency	32Hz–2.0kHz	4–40	table#3	CVP-109/107/700	
		50Hz–2.0kHz	8–40	table#3	CVP-105/103	
2	EQ Low Gain	-12–+12dB	52–76			
3	EQ High Frequency	500Hz–16.0kHz	28–58	table#3		
4	EQ High Gain	-12–+12dB	52–76			
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						

AUTO WAH (variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	LFO Frequency	0.00Hz–39.7Hz	0–127	table#1		
2	LFO Depth	0–127	0–127			
3	Cutoff Frequency Offset	0–127	0–127		●	
4	Resonance	1.0–12.0	10–120			
5						
6	EQ Low Frequency	32Hz–2.0kHz	4–40	table#3	CVP-109/107/700	
		50Hz–2.0kHz	8–40	table#3	CVP-105/103	
7	EQ Low Gain	-12–+12dB	52–76			
8	EQ High Frequency	500Hz–16.0kHz	28–58	table#3		
9	EQ High Gain	-12–+12dB	52–76			
10	Dry/Wet	D63>W – D=W – D<W63	1–127			
11	Drive	0–127(variation block)	0–127			
12						
13						
14						
15						
16						

AUTO WAH+DIST
AUTO WHA+ODRV (variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	LFO Frequency	0.00Hz–39.7Hz	0–127	table#1		
2	LFO Depth	0–127	0–127			
3	Cutoff Frequency Offset	0–127	0–127		●	
4	Resonance	1.0–12.0	10–120			
5						
6	EQ Low Frequency	32Hz–2.0kHz	4–40	table#3		
7	EQ Low Gain	-12–+12dB	52–76			
8	EQ High Frequency	500Hz–16.0kHz	28–58	table#3		
9	EQ High Gain	-12–+12dB	52–76			
10	Dry/Wet	D63>W – D=W – D<W63	1–127			
11	Drive	0–127	0–127			
12	EQ Low Gain (distortion)		-12–+12dB	52–76		
13	EQ Mid Gain (distortion)		-12–+12dB	52–76		
14	LPF Cutoff	1.0kHz–thru	34–60	table#3		
15	Output Level	0–127	0–127			
16						

TOUCH WAH 1 (variation, insertion block)
TOUCH WAH+DIST (variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Sensitive	0–127	0–127			
2	Cutoff Frequency Offset	0–127	0–127		●	
3	Resonance	1.0–12.0	10–120			
4						
5						
6	EQ Low Frequency	32Hz–2.0kHz	4–40	table#3		
7	EQ Low Gain	-12–+12dB	52–76			
8	EQ High Frequency	500Hz–16.0kHz	28–58	table#3		
9	EQ High Gain	-12–+12dB	52–76			
10	Dry/Wet	D63>W – D=W – D<W63	1–127			
11	Drive	0–127(variation block)	0–127			
12						
13						
14						
15						
16						

TOUCH WAH 2 (variation, insertion block)
TOUCH WAH+ODRV (variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Sensitive	0–127	0–127			
2	Cutoff Frequency Offset	0–127	0–127		●	
3	Resonance	1.0–12.0	10–120			
4						
5						
6	EQ Low Frequency	32Hz–2.0kHz	4–40	table#3		
7	EQ Low Gain	-12–+12dB	52–76			
8	EQ High Frequency	500Hz–16.0kHz	28–58	table#3		
9	EQ High Gain	-12–+12dB	52–76			
10	Dry/Wet	D63>W – D=W – D<W63	1–127			
11	Drive	0–127(variation block)	0–127			
12	EQ Low Gain (distortion)	-12–+12dB(variation block)	52–76			
13	EQ Mid Gain (distortion)	-12–+12dB(variation block)	52–76			
14	LPF Cutoff	1.0kHz–thru(variation block)	34–60	table#3		
15	Output Level	0–127(variation block)	0–127			
16	Release	10–680ms	52–67			

PITCH CHANGE 1 (variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Pitch	-24–+24	40–88			
2	Initial Delay	0.1mS–400.0mS	0–127	table#7		
3	Fine 1	-50–+50	14–114			
4	Fine 2	-50–+50	14–114			
5	Feedback Level	-63–+63	1–127			
6						
7						
8						
9						
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11	Pan 1	L63–R63	1–127			
12	Output Level 1	0–127	0–127			
13	Pan 2	L63–R63	1–127			
14	Output Level 2	0–127	0–127			
15						
16						

PITCH CHANGE 2 (variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Pitch	-24–+24	40–88			
2	Initial Delay	0.1mS–400.0mS	0–127	table#7		
3	Fine 1	-50–+50cent	14–114			
4	Fine 2	-50–+50cent	14–114			
5	Feedback Level	-63–+63	1–127			
6						
7						
8						
9						
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11	Pan 1	L63–R63	1–127			
12	Output Level 1	0–127	0–127			
13	Pan 2	L63–R63	1–127			
14	Output Level 2	0–127	0–127			
15						
16						

COMPRESSOR (variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Attack	1–40ms	0–19	table#8		
2	Release	10–680ms	0–15	table#9		
3	Threshold	-48– -6dB	79–121			
4	Ratio	1.0–20.0	0–7	table#10		
5	Output Level	0–127	0–127			
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						

NOISE GATE (variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Attack	1–40ms	0–19	table#8		
2	Release	10–680ms	0–15	table#9		
3	Threshold	-72– -30dB	55–97			
4	Output Level	0–127	0–127			
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						

VOICE CANCEL (variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11	Low Adjust	0–26	0–26			
12	High Adjust	0–26	0–26			
13						
14						
15						
16						

NO EFFECT (reverb, chorus, variation block)
THRU (variation, insertion block)

No.	Parameter	Display	Value	See Table	Comment	Control
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						

HARMONIC ENHANCER (variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	HPF Cutoff	500Hz–16kHz	28–58	table#3		
2	Drive	0–127	0–127			
3	Mix Level	0–127	0–127			
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						

TALKING MODULATION (variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Vowel	a,i,u,e,o	0–4			
2	Move speed	1–62	1–62			
3	Drive	0–127	0–127			
4	Output Level	0–127	0–127			
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						

LO-FI (variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Sampling Freq Control	a,i,u,e,o	0–4			
2	Word Length	1–62	1–62			
3	Output Gain	0–127	0–127			
4	LPF Cutoff	0–127	0–127			
5	Filter Type	Thru,PowerBass,Radio,Tel, Clean,Low	0–5			
6	LPF Resonance	1.0–12.0	10–120			
7	Bit Assign	0–6	0–6			
8	Emphasis	Off/On	0–1			
9						
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11						
12						
13						
14						
15	Input Mode	mono/stereo				
16						

DIST+DELAY (variation block)
OVERDRIVE+DELAY (variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Lch Delay Time	0.1–1486.0ms	1–14860			
2	Rch Delay Time	0.1–1486.0ms	1–14860			
3	Delay Feedback Time	0.1–1486.0ms	1–14860			
4	Delay Feedback Level	-63–+63	1–127			
5	Delay Mix	0–127	0–127			
6	Dist Drive	0–127	0–127			
7	Dist Output Level	0–127	0–127			
8	Dist EQ Low Gain	-12–+12dB	52–76			
9	Dist EQ Mid Gain	-12–+12dB	52–76			
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11						
12						
13						
14						
15						
16						

COMP+DIST+DELAY (variation block)
COMP+OVERDRIVE+DELAY (variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Delay Time	0.1–1486.0ms	1–14860			
2	Delay Feedback Level	-63–+63	1–127			
3	Delay Mix	0–127	0–127			
4	Dist Drive	0–127	0–127			
5	Dist Output Level	0–127	0–127			
6	Dist EQ Low Gain	-12–+12dB	52–76			
7	Dist EQ Mid Gain	-12–+12dB	52–76			
8						
9						
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11	Comp. Attack	1ms–40ms	0–19	table#8		
12	Comp. Release	10ms–680ms	0–15	table#9		
13	Comp. Threshold	-48dB– -6dB	79–121			
14	Comp. Ratio	1.0–20.0	0–7	table#10		
15						
16						

WAH+DIST+DELAY (variation block)
WAH+OVERDRIVE+DELAY (variation block)

No.	Parameter	Display	Value	See Table	Comment	Control
1	Delay Time	0.1–1486.0ms	1–14860			
2	Delay Feedback Level	-63–+63	1–127			
3	Delay Mix	0–127	0–127			
4	Dist Drive	0–127	0–127			
5	Dist Output Level	0–127	0–127			
6	Dist EQ Low Gain	-12–+12dB	52–76			
7	Dist EQ Mid Gain	-12–+12dB	52–76			
8						
9						
10	Dry/Wet	D63>W – D=W – D<W63	1–127			●
11	Wah Sensitive	0–127	0–127			
12	Wah Cutoff Freq Offset	0–127	0–127			
13	Wah Resonance	1.0–12.0	10–120			
14	Wah Release	10–680ms	52–67			
15						
16						

Note: Parameter 10 (Dry/Wet) can only be set for insertion type effects.

VOCAL HARMONY MIDI SPECIFICATIONS

Channel message

```
1) Note on / off                    Harmony ch   Melody ch
    9n kk vv   note on message          ○            ○
                 Specifies pitch in the Vocoder mode.
                 Velocity not recognized.
                 Also used as Gender Threshold source for the Melody channel.

    8n kk vv   note off message         ○            ○
                 Turns the current note off in the Vocoder mode.
    9n kk 00
                 Also used as Gender Threshold source for the Melody channel.

2) Control change
    Bn 40 vv   damper pedal             ○            ○
       64      RPN                      ○            ○
       65      RPN                      ○            ○
       62      NRPN                     ○            ○
       63      NRPN                     ○            ○
       06      Data entry MSB           ○            ○
       64      Data Increment           ○            ○
       26      Data Decrement           ○            ○
       7B      All note off             ○            ○

3) RPN
    MSB   LSB
    00    00   Pitch bend sensitivity   ○            ○
    7F    7F   NULL                     ○            ○

4) NRPN
    MSB   LSB
    00    00   Harmony mute             ○            ×

    01    08   Vibrato rate modulation  ○            ○
    01    09   Vibrato depth modulation ○            ○
    01    0A   Vibrato delay modulation ○            ○
    01    1A   Detune modulation        ○            ×
                 Controls the overall amount of detune.

    02    10   Harmony 1 volume         ○            ×
    02    11   Harmony 2 volume         ○            ×

    02    20   Harmony 1 pan            ○            ×
    02    21   Harmony 2 pan            ○            ×

    02    30   Harmony 1 detune         ○            ×
    02    31   Harmony 2 detune         ○            ×

    03    00   Lead gender type         ×            ○
    03    01   Lead gender amount       ×            ○

5) Pitch bend
    E0 nn nn                            ○            ○
                 Only effective when melody channel Lead Gender ON.
```

<Table 1-14 > Effect Data Value Assign Table

Table#1
LFO Frequency

Data	Value	Data	Value	Data	Value	Data	Value
0	0.00	32	1.35	64	2.69	96	8.41
1	0.04	33	1.39	65	2.78	97	8.75
2	0.08	34	1.43	66	2.86	98	9.08
3	0.13	35	1.47	67	2.94	99	9.42
4	0.17	36	1.51	68	3.03	100	9.76
5	0.21	37	1.56	69	3.11	101	10.1
6	0.25	38	1.60	70	3.20	102	10.8
7	0.29	39	1.64	71	3.28	103	11.4
8	0.34	40	1.68	72	3.37	104	12.1
9	0.38	41	1.72	73	3.45	105	12.8
10	0.42	42	1.77	74	3.53	106	13.5
11	0.46	43	1.81	75	3.62	107	14.1
12	0.51	44	1.85	76	3.70	108	14.8
13	0.55	45	1.89	77	3.87	109	15.5
14	0.59	46	1.94	78	4.04	110	16.2
15	0.63	47	1.98	79	4.21	111	16.8
16	0.67	48	2.02	80	4.37	112	17.5
17	0.72	49	2.06	81	4.54	113	18.2
18	0.76	50	2.10	82	4.71	114	19.5
19	0.80	51	2.15	83	4.88	115	20.9
20	0.84	52	2.19	84	5.05	116	22.2
21	0.88	53	2.23	85	5.22	117	23.6
22	0.93	54	2.27	86	5.38	118	24.9
23	0.97	55	2.31	87	5.55	119	26.2
24	1.01	56	2.36	88	5.72	120	27.6
25	1.05	57	2.40	89	6.06	121	28.9
26	1.09	58	2.44	90	6.39	122	30.3
27	1.14	59	2.48	91	6.73	123	31.6
28	1.18	60	2.52	92	7.07	124	33.0
29	1.22	61	2.57	93	7.40	125	34.3
30	1.26	62	2.61	94	7.74	126	37.0
31	1.30	63	2.65	95	8.08	127	39.7

Table#5
Delay Time(200.0ms)

Data	Value	Data	Value	Data	Value	Data	Value
0	0.1	32	50.5	64	100.8	96	151.2
1	1.7	33	52.0	65	102.4	97	152.8
2	3.2	34	53.6	66	104.0	98	154.4
3	4.8	35	55.2	67	105.6	99	155.9
4	6.4	36	56.8	68	107.1	100	157.5
5	8.0	37	58.3	69	108.7	101	159.1
6	9.5	38	59.9	70	110.3	102	160.6
7	11.1	39	61.5	71	111.9	103	162.2
8	12.7	40	63.1	72	113.4	104	163.8
9	14.3	41	64.6	73	115.0	105	165.4
10	15.8	42	66.2	74	116.6	106	166.9
11	17.4	43	67.8	75	118.2	107	168.5
12	19.0	44	69.4	76	119.7	108	170.1
13	20.6	45	70.9	77	121.3	109	171.7
14	22.1	46	72.5	78	122.9	110	173.2
15	23.7	47	74.1	79	124.4	111	174.8
16	25.3	48	75.7	80	126.0	112	176.4
17	26.9	49	77.2	81	127.6	113	178.0
18	28.4	50	78.8	82	129.2	114	179.5
19	30.0	51	80.4	83	130.7	115	181.1
20	31.6	52	81.9	84	132.3	116	182.7
21	33.2	53	83.5	85	133.9	117	184.3
22	34.7	54	85.1	86	135.5	118	185.8
23	36.3	55	86.7	87	137.0	119	187.4
24	37.9	56	88.2	88	138.6	120	189.0
25	39.5	57	89.8	89	140.2	121	190.6
26	41.0	58	91.4	90	141.8	122	192.1
27	42.6	59	93.0	91	143.3	123	193.7
28	44.2	60	94.5	92	144.9	124	195.3
29	45.7	61	96.1	93	146.5	125	196.9
30	47.3	62	97.7	94	148.1	126	198.4
31	48.9	63	99.3	95	149.6	127	200.0

Table#8
Compressor Attack Time

Data	Value
0	1
1	2
2	3
3	4
4	5
5	6
6	7
7	8
8	9
9	10
10	12
11	14
12	16
13	18
14	20
15	23
16	26
17	30
18	35
19	40

Table#9
Compressor Release Time

Data	Value
0	10
1	15
2	25
3	35
4	45
5	55
6	65
7	75
8	85
9	100
10	115
11	140
12	170
13	230
14	340
15	680

Table#10
Compressor Ratio

Data	Value
0	1.0
1	1.5
2	2.0
3	3.0
4	5.0
5	7.0
6	10.0
7	20.0

Table#2
Modulation Delay Offset

Data	Value	Data	Value	Data	Value	Data	Value
0	0.0	32	3.2	64	6.4	96	9.6
1	0.1	33	3.3	65	6.5	97	9.7
2	0.2	34	3.4	66	6.6	98	9.8
3	0.3	35	3.5	67	6.7	99	9.9
4	0.4	36	3.6	68	6.8	100	10.0
5	0.5	37	3.7	69	6.9	101	11.1
6	0.6	38	3.8	70	7.0	102	12.2
7	0.7	39	3.9	71	7.1	103	13.3
8	0.8	40	4.0	72	7.2	104	14.4
9	0.9	41	4.1	73	7.3	105	15.5
10	1.0	42	4.2	74	7.4	106	17.1
11	1.1	43	4.3	75	7.5	107	18.6
12	1.2	44	4.4	76	7.6	108	20.2
13	1.3	45	4.5	77	7.7	109	21.8
14	1.4	46	4.6	78	7.8	110	23.3
15	1.5	47	4.7	79	7.9	111	24.9
16	1.6	48	4.8	80	8.0	112	26.5
17	1.7	49	4.9	81	8.1	113	28.0
18	1.8	50	5.0	82	8.2	114	29.6
19	1.9	51	5.1	83	8.3	115	31.2
20	2.0	52	5.2	84	8.4	116	32.8
21	2.1	53	5.3	85	8.5	117	34.3
22	2.2	54	5.4	86	8.6	118	35.9
23	2.3	55	5.5	87	8.7	119	37.5
24	2.4	56	5.6	88	8.8	120	39.0
25	2.5	57	5.7	89	8.9	121	40.6
26	2.6	58	5.8	90	9.0	122	42.2
27	2.7	59	5.9	91	9.1	123	43.7
28	2.8	60	6.0	92	9.2	124	45.3
29	2.9	61	6.1	93	9.3	125	46.9
30	3.0	62	6.2	94	9.4	126	48.4
31	3.1	63	6.3	95	9.5	127	50.0

Table#6
Room Size

Data	Value	Data	Value	Data	Value	Data	Value
0	0.1	32	5.1	64	10.1	96	15.1
1	0.3	33	5.3	65	10.3	97	15.3
2	0.4	34	5.4	66	10.4	98	15.5
3	0.6	35	5.6	67	10.6	99	15.6
4	0.7	36	5.7	68	10.8	100	15.8
5	0.9	37	5.9	69	10.9	101	15.9
6	1.0	38	6.1	70	11.1	102	16.1
7	1.2	39	6.2	71	11.2	103	16.2
8	1.4	40	6.4	72	11.4	104	16.4
9	1.5	41	6.5	73	11.5	105	16.6
10	1.7	42	6.7	74	11.7	106	16.7
11	1.8	43	6.8	75	11.9	107	16.9
12	2.0	44	7.0	76	12.0	108	17.0
13	2.1	45	7.2	77	12.2	109	17.2
14	2.3	46	7.3	78	12.3	110	17.3
15	2.5	47	7.5	79	12.5	111	17.5
16	2.6	48	7.6	80	12.6	112	17.6
17	2.8	49	7.8	81	12.8	113	17.8
18	2.9	50	7.9	82	12.9	114	18.0
19	3.1	51	8.1	83	13.1	115	18.1
20	3.2	52	8.2	84	13.3	116	18.3
21	3.4	53	8.4	85	13.4	117	18.4
22	3.5	54	8.6	86	13.6	118	18.6
23	3.7	55	8.7	87	13.7	119	18.7
24	3.9	56	8.9	88	13.9	120	18.9
25	4.0	57	9.0	89	14.0	121	19.1
26	4.2	58	9.2	90	14.2	122	19.2
27	4.3	59	9.3	91	14.4	123	19.4
28	4.5	60	9.5	92	14.5	124	19.5
29	4.6	61	9.7	93	14.7	125	19.7
30	4.8	62	9.8	94	14.8	126	19.8
31	5.0	63	10.0	95	15.0	127	20.0

Table#11
Reverb Width;Depth;Height

Data	Value	Data	Value	Data	Value	Data	Value
0	0.5	32	8.8	64	17.6	96	27.5
1	0.8	33	9.1	65	17.9	97	27.8
2	1.0	34	9.4	66	18.2	98	28.1
3	1.3	35	9.6	67	18.5	99	28.5
4	1.5	36	9.9	68	18.8	100	28.8
5	1.8	37	10.2	69	19.1	101	29.2
6	2.0	38	10.4	70	19.4	102	29.5
7	2.3	39	10.7	71	19.7	103	29.9
8	2.6	40	11.0	72	20.0	104	30.2
9	2.8	41	11.2	73	20.2		
10	3.1	42	11.5	74	20.5		
11	3.3	43	11.8	75	20.8		
12	3.6	44	12.1	76	21.1		
13	3.9	45	12.3	77	21.4		
14	4.1	46	12.6	78	21.7		
15	4.4	47	12.9	79	22.0		
16	4.6	48	13.1	80	22.4		
17	4.9	49	13.4	81	22.7		
18	5.2	50	13.7	82	23.0		
19	5.4	51	14.0	83	23.3		
20	5.7	52	14.2	84	23.6		
21	5.9	53	14.5	85	23.9		
22	6.2	54	14.8	86	24.2		
23	6.5	55	15.1	87	24.5		
24	6.7	56	15.4	88	24.9		
25	7.0	57	15.6	89	25.2		
26	7.2	58	15.9	90	25.5		
27	7.5	59	16.2	91	25.8		
28	7.8	60	16.5	92	26.1		
29	8.0	61	16.8	93	26.5		
30	8.3	62	17.1	94	26.8		
31	8.6	63	17.3	95	27.1		

Table#3
EQ Frequency

Data	Value	Data	Value
0	THRU(0)	32	800
1	22	33	900
2	25	34	1.0k
3	28	35	1.1k
4	32	36	1.2k
5	36	37	1.4k
6	40	38	1.6k
7	45	39	1.8k
8	50	40	2.0k
9	56	41	2.2k
10	63	42	2.5k
11	70	43	2.8k
12	80	44	3.2k
13	90	45	3.6k
14	100	46	4.0k
15	110	47	4.5k
16	125	48	5.0k
17	140	49	5.6k
18	160	50	6.3k
19	180	51	7.0k
20	200	52	8.0k
21	225	53	9.0k
22	250	54	10.0k
23	280	55	11.0k
24	315	56	12.0k
25	355	57	14.0k
26	400	58	16.0k
27	450	59	18.0k
28	500	60	THRU(20.0k)
29	560		
30	630		
31	700		

Table#4
Reverb time

Data	Value	Data	Value	Data	Value
0	0.3	32	3.5	64	17.0
1	0.4	33	3.6	65	18.0
2	0.5	34	3.7	66	19.0
3	0.6	35	3.8	67	20.0
4	0.7	36	3.9	68	25.0
5	0.8	37	4.0	69	30.0
6	0.9	38	4.1		
7	1.0	39	4.2		
8	1.1	40	4.3		
9	1.2	41	4.4		
10	1.3	42	4.5		
11	1.4	43	4.6		
12	1.5	44	4.7		
13	1.6	45	4.8		
14	1.7	46	4.9		
15	1.8	47	5.0		
16	1.9	48	5.5		
17	2.0	49	6.0		
18	2.1	50	6.5		
19	2.2	51	7.0		
20	2.3	52	7.5		
21	2.4	53	8.0		
22	2.5	54	8.5		
23	2.6	55	9.0		
24	2.7	56	9.5		
25	2.8	57	10.0		
26	2.9	58	11.0		
27	3.0	59	12.0		
28	3.1	60	13.0		
29	3.2	61	14.0		
30	3.3	62	15.0		
31	3.4	63	16.0		

Table#7
Delay Time(400.0ms)

Data	Value	Data	Value	Data	Value	Data	Value
0	0.1	32	100.9	64	201.6	96	302.4
1	3.2	33	104.0	65	204.8	97	305.5
2	6.4	34	107.2	66	207.9	98	308.7
3	9.5	35	110.3	67	211.1	99	311.8
4	12.7	36	113.5	68	214.2	100	315.0
5	15.8	37	116.6	69	217.4	101	318.1
6	19.0	38	119.8	70	220.5	102	321.3
7	22.1	39	122.9	71	223.7	103	324.4
8	25.3	40	126.1	72	226.8	104	327.6
9	28.4	41	129.2	73	230.0	105	330.7
10	31.6	42	132.4	74	233.1	106	333.9
11	34.7	43	135.5	75	236.3	107	337.0
12	37.9	44	138.6	76	239.4	108	340.2
13	41.0	45	141.8	77	242.6	109	343.3
14	44.2	46	144.9	78	245.7	110	346.5
15	47.3	47	148.1	79	248.9	111	349.6
16	50.5	48	151.2	80	252.0	112	352.8
17	53.6	49	154.4	81	255.2	113	355.9
18	56.8	50	157.5	82	258.3	114	359.1
19	59.9	51	160.7	83	261.5	115	362.2
20	63.1	52	163.8	84	264.6	116	365.4
21	66.2	53	167.0	85	267.7	117	368.5
22	69.4	54	170.1	86	270.9	118	371.7
23	72.5	55	173.3	87	274.0	119	374.8
24	75.7	56	176.4	88	277.2	120	378.0
25	78.8	57	179.6	89	280.3	121	381.1
26	82.0	58	182.7	90	283.5	122	384.3
27	85.1	59	185.9	91	286.6	123	387.4
28	88.3	60	189.0	92	289.8	124	390.6
29	91.4	61	192.2	93	292.9	125	393.7
30	94.6	62	195.3	94	296.1	126	396.9
31	97.7	63	198.5	95	299.2	127	400.0

YAMAHA [Clavinova] Date:01-MAR-1999
Model CVP-103/105/107/109/700 MIDI Implementation Chart Version : 1.0

Function ...	Transmitted	Recognized	Remarks
Basic Default Channel Changed	1 - 16 1 - 16 *1	1 - 16 1 - 16 *2	Memorized
Mode Default Messages Altered	3 x **************	3 3,4 (m=1) *3 x	
Note Number : True voice	0 - 127 **************	0 - 127 0 - 127	
Velocity Note ON Note OFF	o 9nH,v=1-127 x 9nH,v=0	o 9nH,v=1-127 x	
After Key's Touch Ch's	x x	x o	
Pitch Bend	o	o 0-24 semi	
Control change 0,32	o	o	Bank Select
1	x *4	o	Modulation
5	x	o	Portamento Time
7,10,11	o	o	
6,38	o	o	Data Entry
64,66,67	o	o	
65	x	o	Portamento
71-74	x *4	o	Sound Controller
84	o	o	Portamento Cntrl
91,93,94	o	o	Effect Depth
96,97	x	o	RPN Inc,Dec
98,99	x *4	o	NRPN LSB,MSB
100,101	o	o	RPN LSB,MSB
Prog Change : True #	o 0 - 127 **************	o 0 - 127	
System Exclusive	o	o	
Common : Song Pos. : Song Sel. : Tune	x x x	x x x	
System :Clock Real Time :Commands	o o	o o	
Aux :All Sound Off :Reset All Cntrls :Local ON/OFF :All Notes OFF Mes- :Active Sense sages:Reset	x x x x o x	o(120,126,127) o(121) x o(123-125) o x	
Notes:			

Mode 1 : OMNI ON, POLY Mode 2 : OMNI ON, MONO o : Yes
Mode 3 : OMNI OFF, POLY Mode 4 : OMNI OFF, MONO x : No

Notes:

**1: The send channel for the RIGHT1, RIGHT2, and LEFT parts can be set using the Send Channel (Keyboard) function. The transmission of accompaniment, harmony, and song data can be turned on or off using the Send Channel (Accompaniment/Harmony) and Song Transmission functions.*

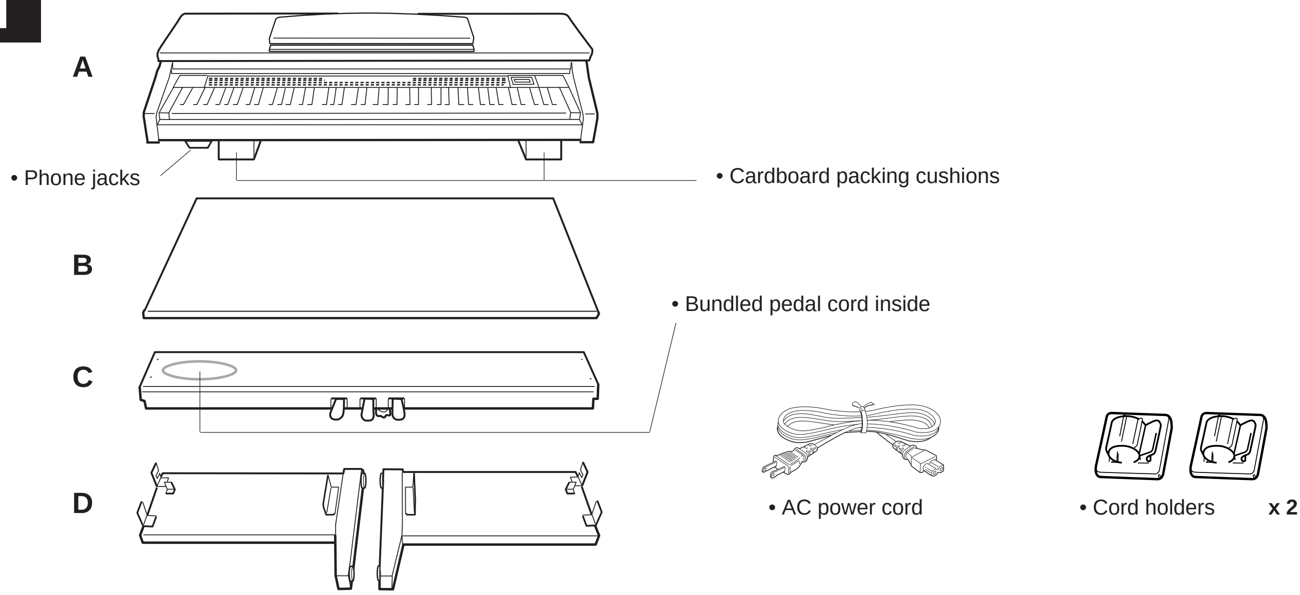
**2: Messages received on the channel set by the Remote Keyboard function are handled as operations performed directly on the keyboard or panel. Only the following messages are received on this channel:*

- *Note On/Off (A-1...C7)*
- *Control Changes*
  - *Bank Select MSB/LSB (RIGHT1 part)*
  - *Modulation*
  - *Data Entry MSB (when PITCH BEND SENS. is set by RPN LSB/MSB)*
  - *Volume*
  - *Expression*
  - *Sustain*
  - *Sostenuto*
  - *Soft Pedal*
  - *Data Increment/Decrement (when PITCH BEND SENS. is set by RPN LSB/MSB)*
  - *RPN LSB/MSB (PITCH BEND SENS. only)*
  - *All Note Off*
- *Program Change (RIGHT1 part)*
- *Pitch Bend*

**3: "m" is always treated as "1" regardless of its value.*

**4: Transmitted when ACMP&RHY or HARMONY setting of Send Channel (Accompaniment/Harmony) function is on.*

1



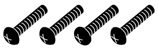
CVP-103: Assembly

⚠CAUTION

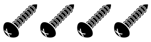
- *Be careful not to confuse parts, and be sure to install all parts in the correct direction. Please assemble in accordance with the sequence given below.*
- *Assembly should be carried out by at least two persons.*
- *Be sure to use the correct screw size, as indicated above. Use of incorrect screws can cause damage.*
- *Be sure to tighten up all screws upon completing assembly of each unit.*
- *To disassemble, reverse the assembly sequence given below.*

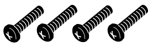
1 Open the box and remove all the parts.

Take out the two cardboard packing cushions on top of the main unit and place them on the floor. Then take out main unit (A) and place it on top of the packing cushions. Position the cushions so as to protect the phone jacks on the base of the unit.
Remove all parts from the box. Confirm that all parts shown in the illustration above are provided.

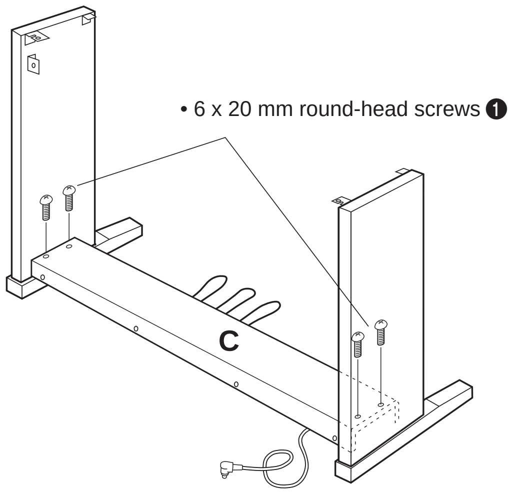
 • 6 x 20 mm round-head screws **x 4** ❶

 • 4 x 12 mm round-head screws **x 2** ❷

 • 4 x 20 mm tapping screws **x 4** ❸

 • 6 x 16 mm flat-head screws **x 4** ❸

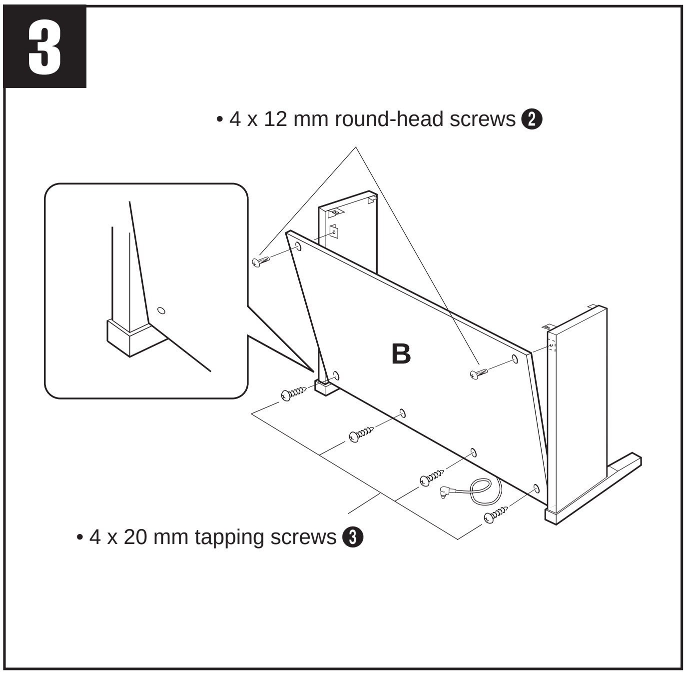
2

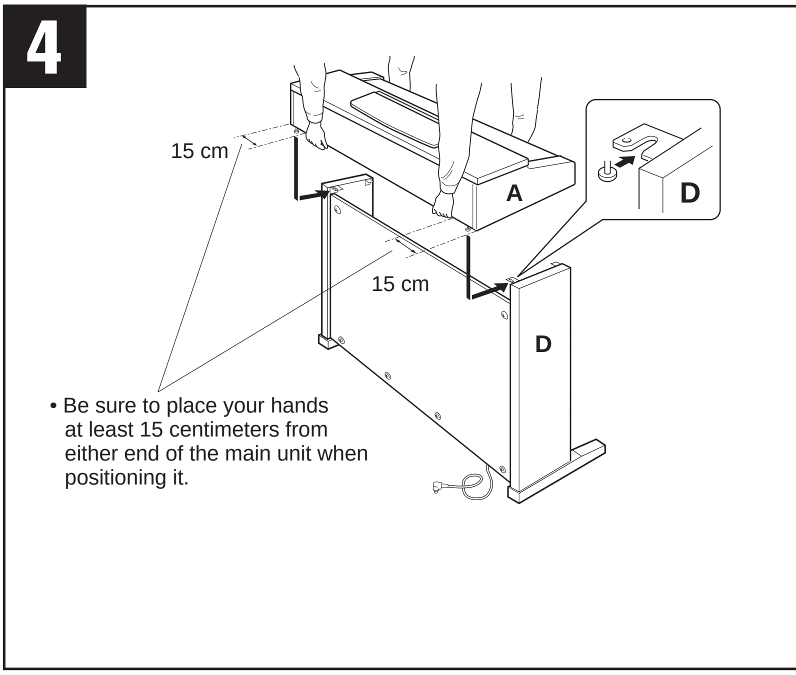


2 Attach the side panels (D) to the pedal box (C).

Before installing the pedal box, untie and straighten out the bundled cord attached to the bottom of the pedal box. Don't discard the vinyl tie, you'll need it later in step 5 .

Place the pedal box on top of the brackets attached to the side panels (D), and attach using the four 6 x 20 millimeter round-head screws ❶ — two screws on each side. Make sure the pedals extend in the same direction as the side panel feet.





3 Attach the rear panel (B).

With the rear panel slightly angled as shown in the illustration, lower it onto the feet's protruding edge at the rear of the pedal box. Then, while eliminating any gaps between the rear and side panels, secure the top of the rear panel to the side panel brackets using two 4 x 12 mm round-head screws ❷. Finally, secure the bottom of the rear panel to the pedal box using four 4 x 20 mm tapping screws ❸.

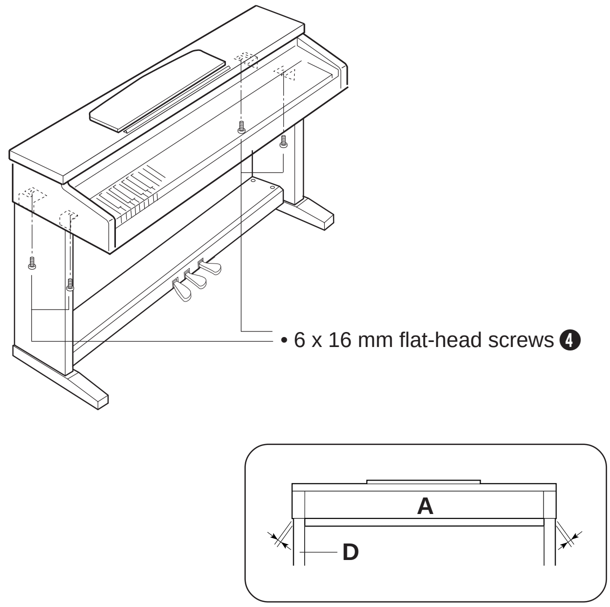
4 Install the main unit (A).

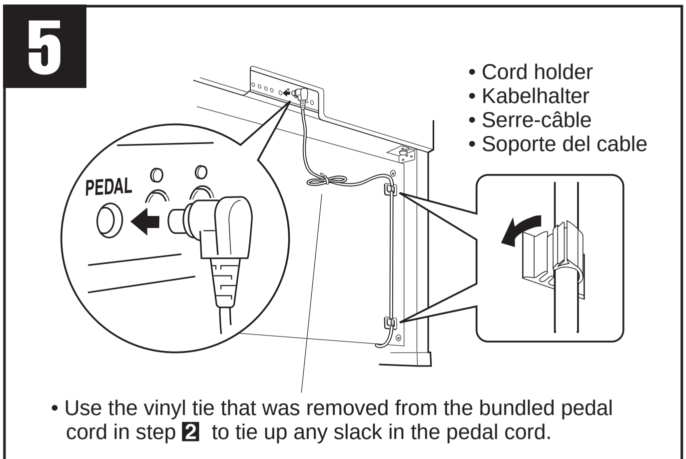
Place the main unit (A) on the side panels (D) with the screws on its bottom panel (toward the rear of the main unit) just behind the grooves in the brackets located at the top of the side panels. Then slide the main unit forward until it stops. **WATCH YOUR FINGERS WHEN DOING THIS!!**

Align the holes on the bottom panel of the main unit with the holes in the brackets on the side panels (also center the main unit to produce equal clearance on the left and right sides, as shown in the illustration), then screw in and securely tighten the four 6 x 16 millimeter flat-head screws ❹.

⚠CAUTION

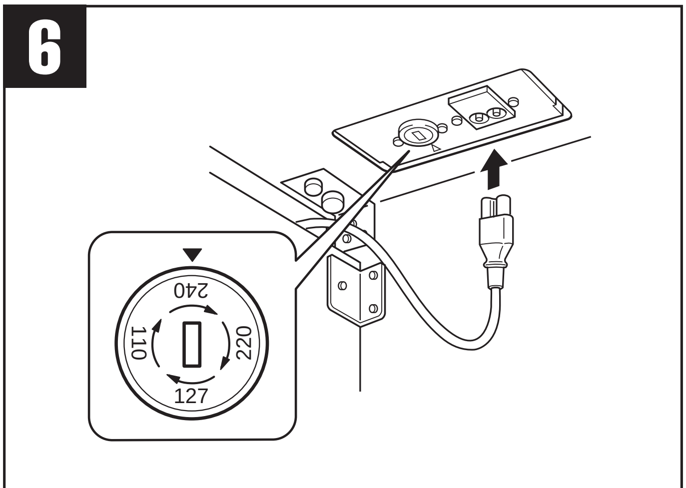
- *Do not hold the keyboard in any position other than the position shown in the above illustration.*
- *Fingers can become pinched between the main unit and the rear or side panels, be extra careful so as not to drop the main unit.*



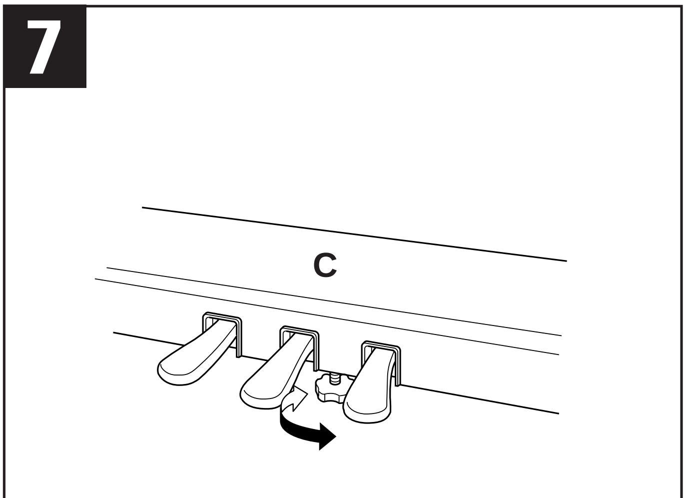


5 Connect the pedal cord.

The pedal cord from the pedal box must be plugged into the PEDAL connector on the rear of the main unit. Once connected, attach the cord holders to the rear panel as shown, then clip the cord into the holders.



• A voltage selector is provided in some areas.



6 Voltage Selector

Before connecting the AC power cord, check the setting of the voltage selector which is provided in some areas. To set the selector for 110V, 127V, 220V or 240V main voltages, use a “minus” screwdriver to rotate the selector dial so that the correct voltage for your region appears next to the pointer on the panel. The voltage selector is set at 240V when the unit is initially shipped.
After the proper voltage has been selected, slide the AC power cord over the rear panel and connect the cord to the AC INLET, then connect the other end of the cord to an AC wall outlet. A plug adaptor may be also provided in some areas to match the pin configuration of the AC wall outlets in your area.

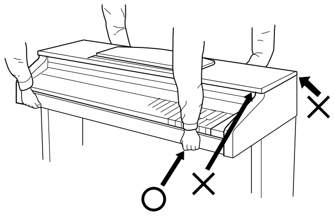
⚠CAUTION

- *An improper voltage setting can cause serious damage to the CVP-103 or result in improper operation.*

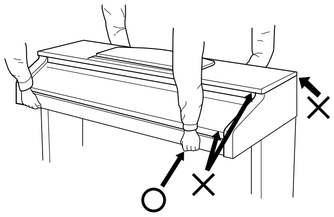
7 Set the adjuster.

For stability, an adjuster is provided on the bottom of the pedal box (C). Rotate the adjuster until it comes in firm contact with the floor surface. The adjuster ensures stable pedal operation and facilitates pedal effect control. If the adjuster is not in firm contact with the floor surface, distorted sound may result.

• Models without keyboard cover



• Models with keyboard cover

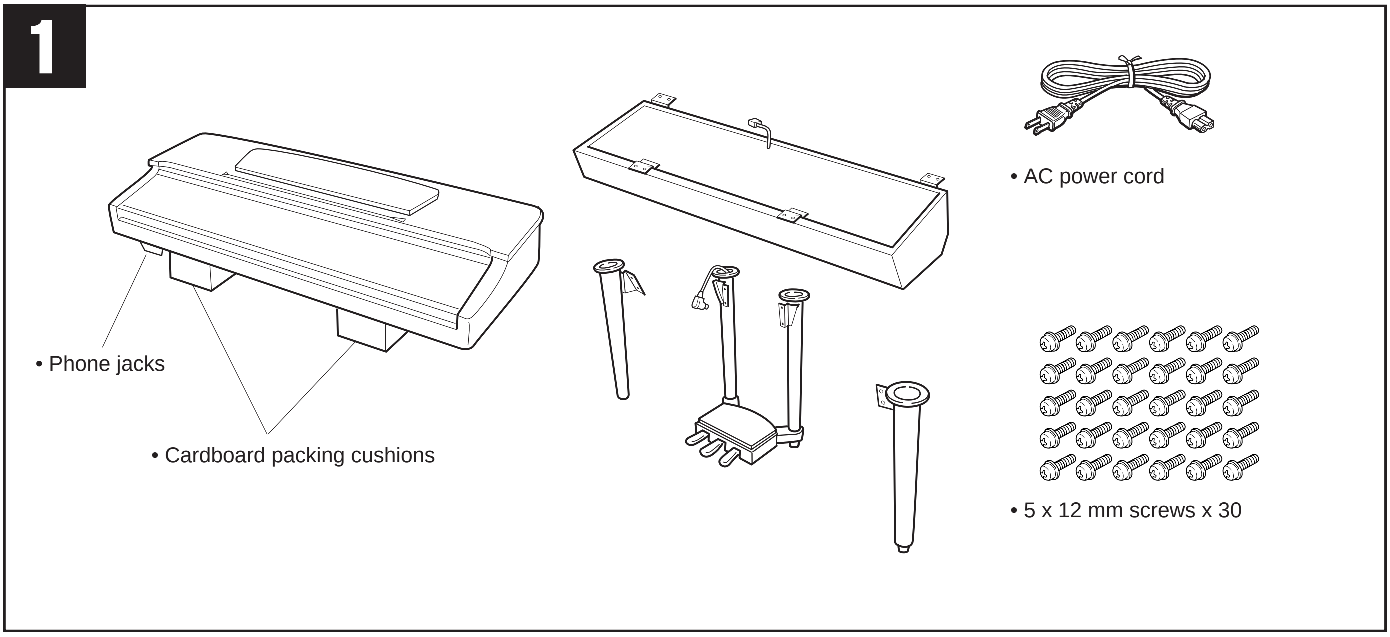


⚠CAUTION

- *When moving the instrument after assembly, always hold the lower surface of the main unit, NEVER the top portion or keyboard cover. Improper handling can result in damage to the instrument or personal injury.*

■ After completing the assembly, please check the following.

- Are there any parts left over?
  → Review the assembly procedure and correct any errors.
- Is the Clavinova clear of doors and other movable fixtures?
  → Move the Clavinova to an appropriate location.
- Does the Clavinova make a rattling noise when you shake it?
  → Tighten all screws.
- Does the pedal box rattle or give way when you step on the pedals?
  → Turn the adjuster so that it is set firmly against the floor.
- Are the pedal and power cords inserted securely into the sockets?
  → Check the connection.
- If the main unit creaks or is otherwise unsteady when you play on the keyboard, refer to the assembly diagrams and retighten all screws.



CVP-105: Assembly

⚠CAUTION

- *Be careful not to confuse parts, and be sure to install all parts in the correct direction. Please assemble in accordance with the sequence given below.*
- *Assembly should be carried out by at least two persons.*
- *Be sure to use the correct screw size, as indicated above. Use of incorrect screws can cause damage.*
- *Be sure to tighten up all screws upon completing assembly of each unit.*
- *To disassemble, reverse the assembly sequence given below.*

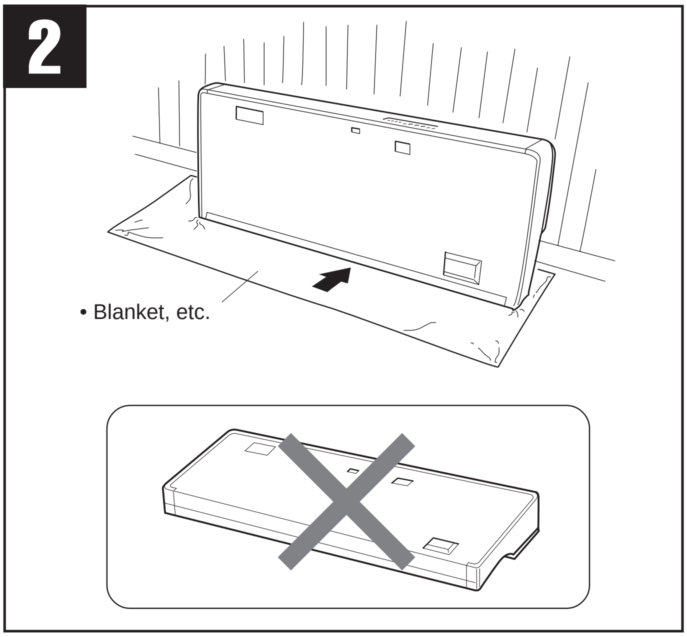
1 Open the box and remove all the parts.

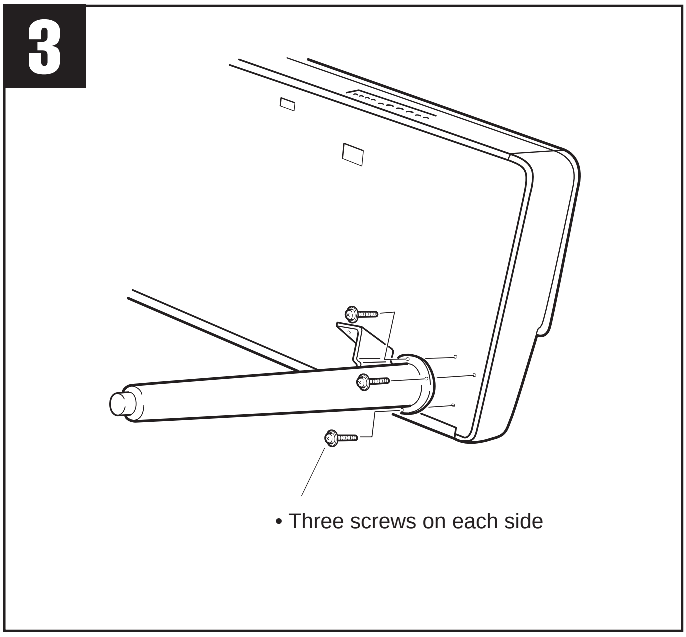
Take out the two cardboard packing cushions and place them on the floor. Then take out main unit and place it on top of the packing cushions. Position the cushions so as to protect the phone jacks on the base of the unit.

Remove all parts from the box. Confirm that all parts shown in the illustration above are provided.

⚠CAUTION

- *When you lift the pedal box assembly, make sure that you lift by both legs.*





2 Carefully lean the main unit against a wall.

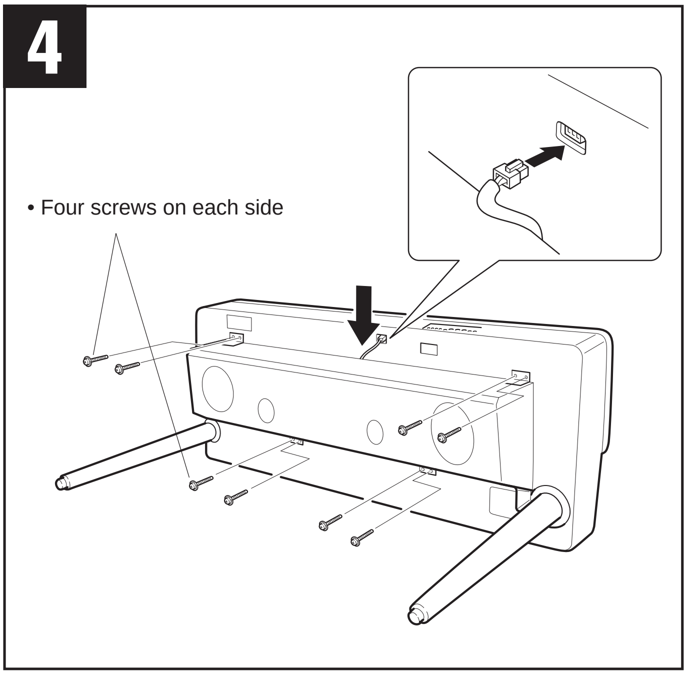
To make it easier to install the legs, place a soft blanket or similar material on the floor near a wall, close the Clavinova keyboard cover, place the front panel of the Clavinova (the side with the keyboard) on the blanket and gently lean the unit against the wall — **MAKING SURE THAT IT CAN NOT FALL** — as shown in the illustration.

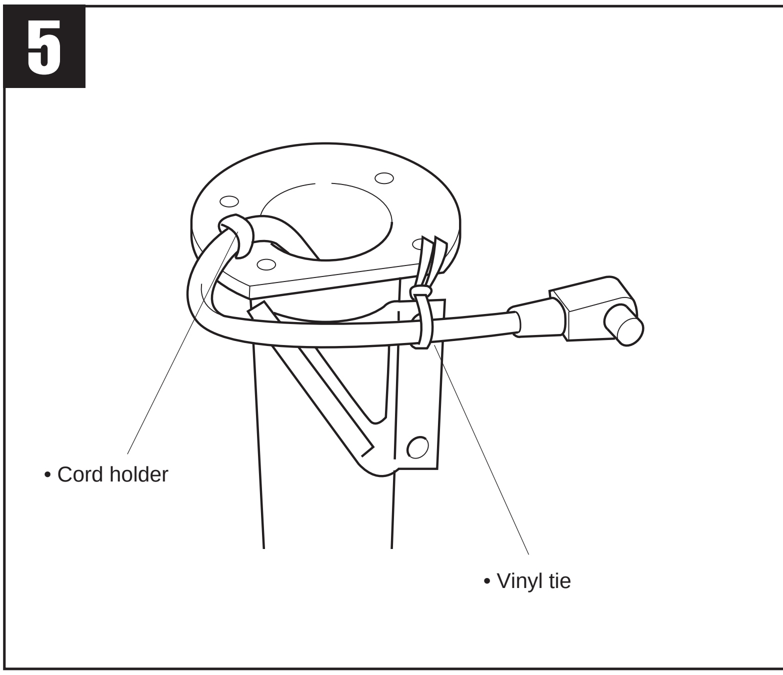
⚠CAUTION

- *Do not lay the main unit upside-down on the floor.*

3 Attach the front legs.

Securely attach the two front legs using three screws for each leg (use a Philips "+" screwdriver) as shown in the illustration. Make sure that the screws are firmly tightened.



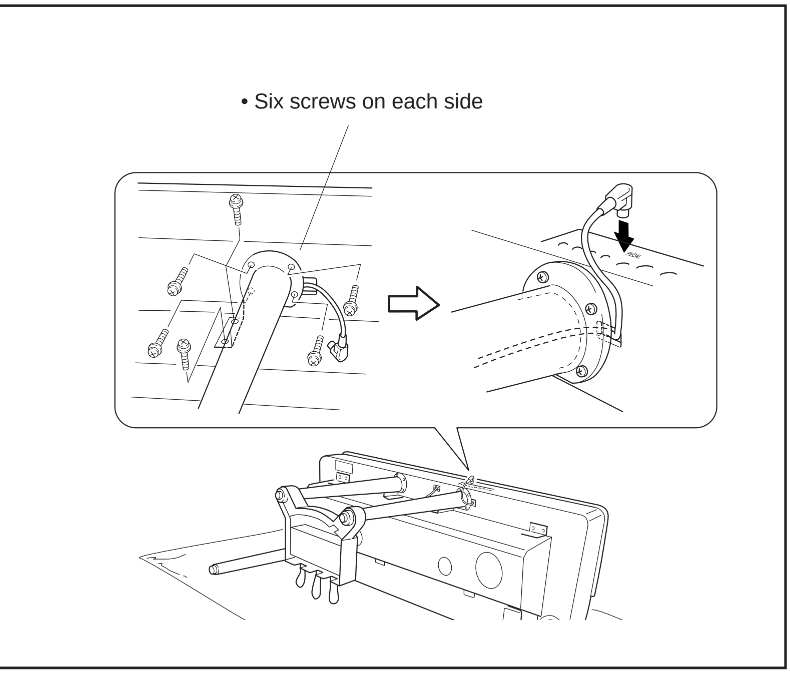


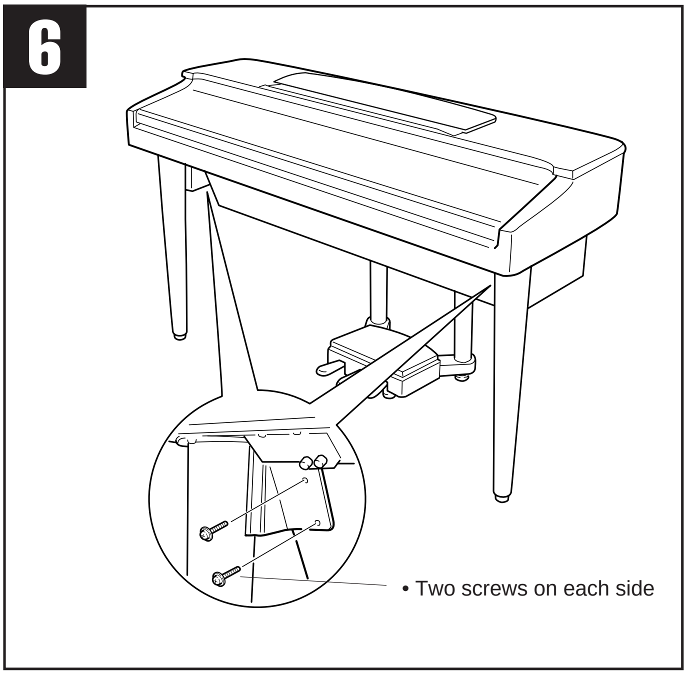
4 Attach the speaker box.

Gently rest the speaker box onto the corresponding brackets on the front legs. Make sure the speaker cord is extending out from the rear of the speaker box. Loosely secure the speaker box to the main keyboard unit using four screws on both the front and back. (The speaker will be secured in step 5.) Insert the speaker cord connector into the corresponding socket on the main keyboard unit, making sure that the protruding clip on the connector is facing up.

5 Attach the pedal box assembly.

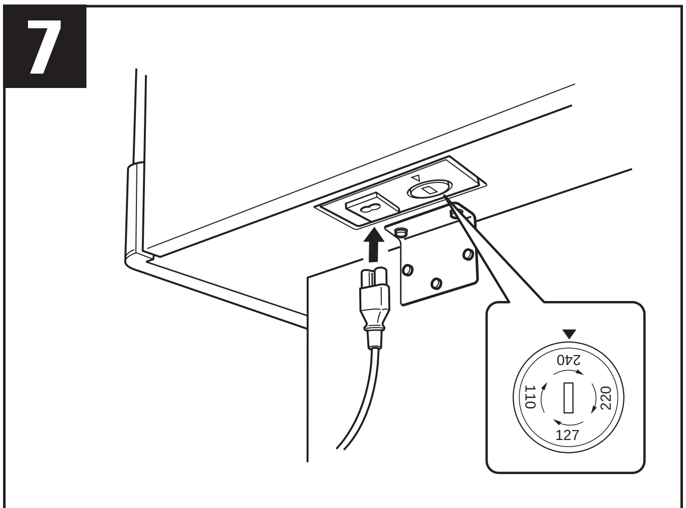
First, remove the vinyl tie from the left leg. Make sure you don't remove the cord holder on the top of the left leg. Using 6 screws for each leg (four screws per leg and two screws on each leg bracket) loosely secure the rear leg and pedal box assembly making sure that the pedal cord on the left leg protrudes from the cut hole on the underside of the main unit. Once loosely attached, go back and firmly tighten all 12 screws on the rear leg and pedal assembly, and also secure the 8 screws on the speaker box. After the rear leg and pedal assembly is securely attached, insert the pedal cord plug into the PEDAL connector on the rear panel.



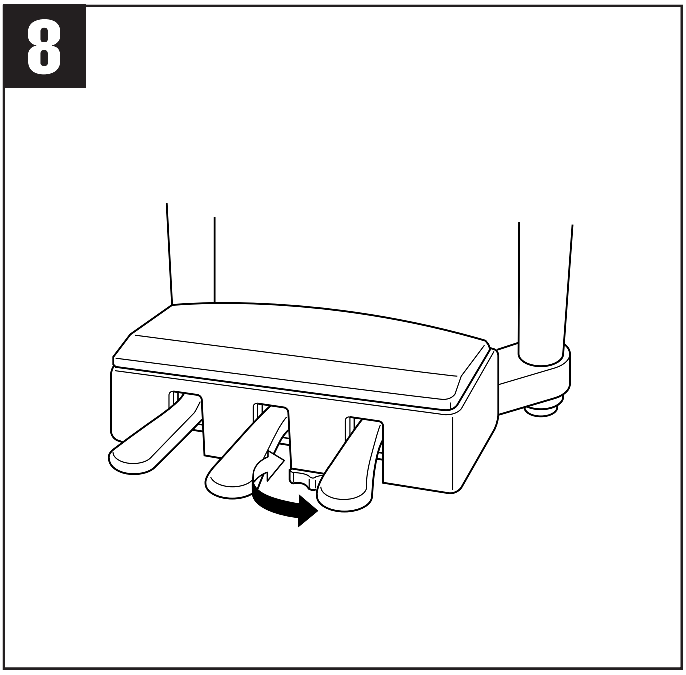


6 Secure the speaker box.

Stand the main unit on its legs and securely attach the speaker box to the bracket on the front legs using two screws for each bracket. If it is impossible to align the bracket holes with the speaker box holes, slightly loosen the three screws on each of the front legs, align the holes, and secure the speaker box. After the speaker box is firmly attached, retighten the screws on the front legs firmly.



• A voltage selector is provided in some areas.



7 Voltage Selector

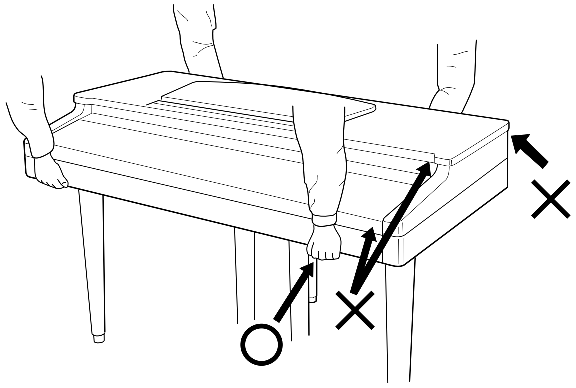
Before connecting the AC power cord, check the setting of the voltage selector which is provided in some areas. To set the selector for 110V, 127V, 220V or 240V main voltages, use a “minus” screwdriver to rotate the selector dial so that the correct voltage for your region appears next to the pointer on the panel. The voltage selector is set at 240V when the unit is initially shipped.
After the proper voltage has been selected, connect the AC power cord to the AC INLET and an AC wall outlet. A plug adaptor may be also provided in some areas to match the pin configuration of the AC wall outlets in your area.

⚠CAUTION

- *An improper voltage setting can cause serious damage to the CVP-105 or result in improper operation.*

8 Set the adjuster.

For stability, an adjuster is provided on the bottom of the pedal box. Rotate the adjuster until it comes in firm contact with the floor surface. The adjuster ensures stable pedal operation and facilitates pedal effect control. If the adjuster is not in firm contact with the floor surface, distorted sound may result.

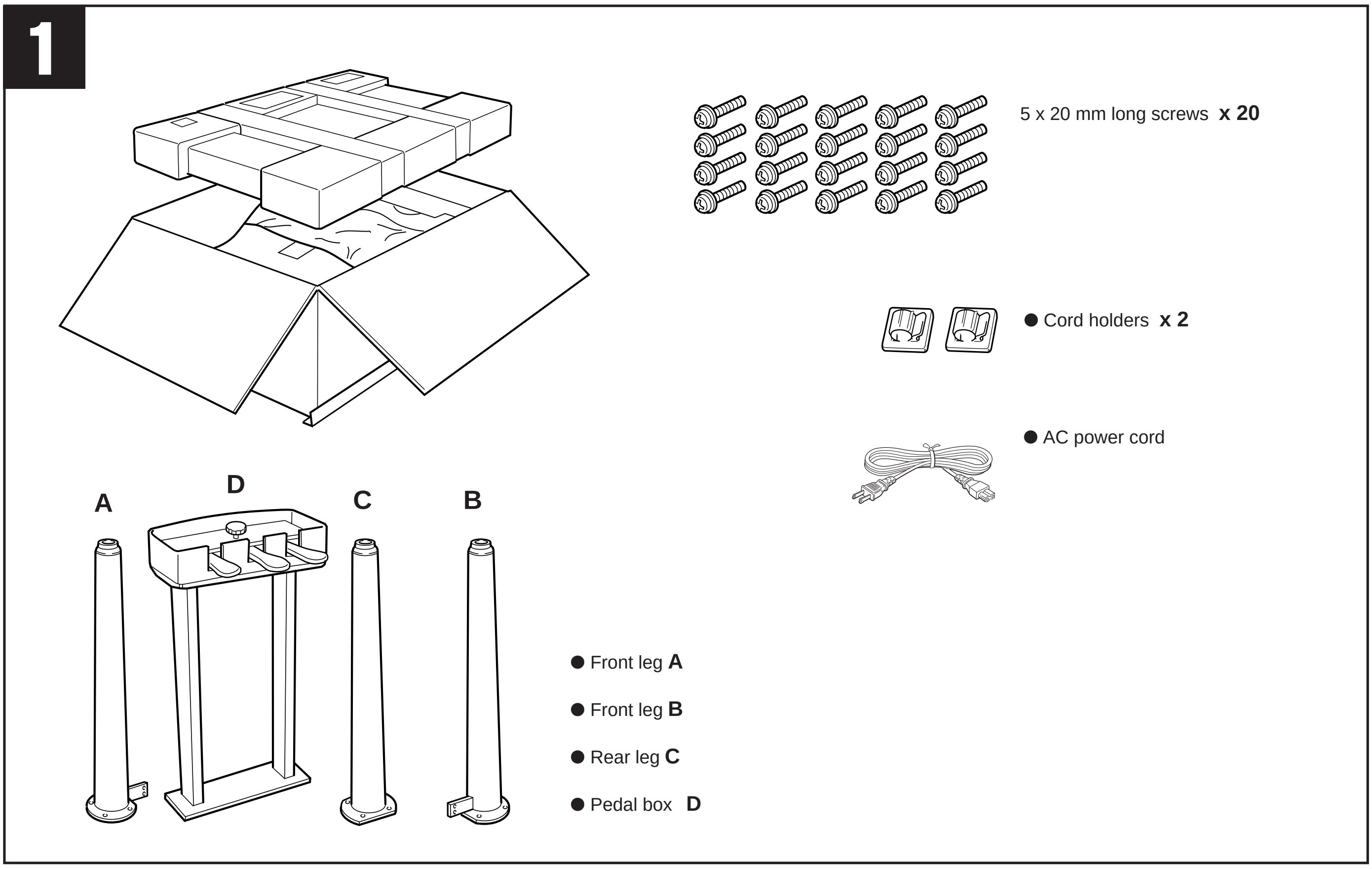


⚠CAUTION

- *When moving the instrument after assembly, always hold the lower surface of the main unit, NEVER the top portion or keyboard cover. Improper handling can result in damage to the instrument or personal injury.*

■ After completing the assembly, please check the following.

- Are there any parts left over?
  - → Review the assembly procedure and correct any errors.
- Is the Clavinova clear of doors and other movable fixtures?
  - → Move the Clavinova to an appropriate location.
- Does the Clavinova make a rattling noise when you shake it?
  - → Tighten all screws.
- Does the pedal box rattle or give way when you step on the pedals?
  - → Turn the adjuster so that it is set firmly against the floor.
- Are the pedal and power cords inserted securely into the sockets?
  - → Check the connection.
- If the main unit creaks or is otherwise unsteady when you play on the keyboard, refer to the assembly diagrams and retighten all screws.



CVP-700: Assembly

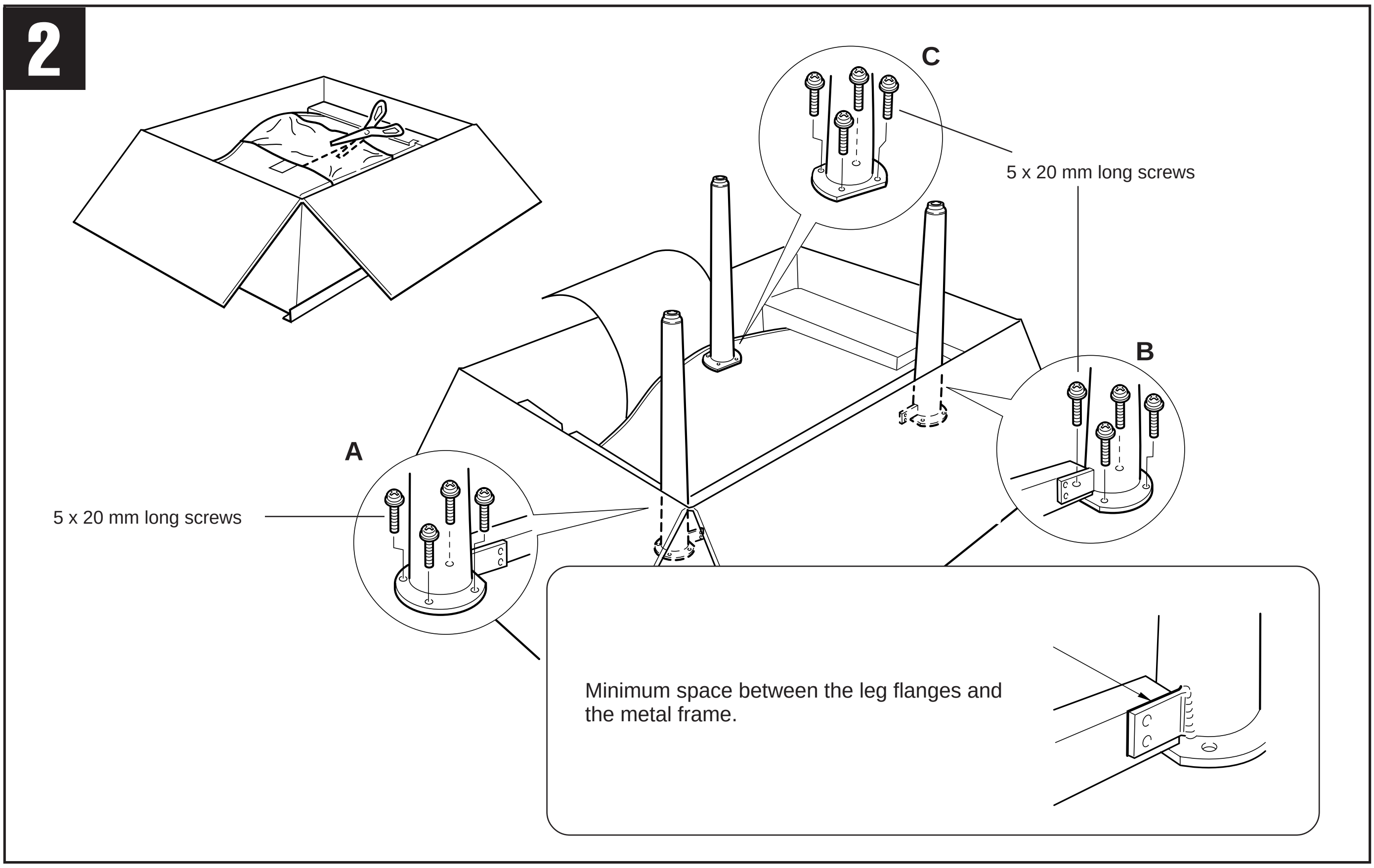
⚠ ***CAUTION***

- *Be careful not to confuse parts, and be sure to install all parts in the correct direction. Please assemble in accordance with the sequence given below.*
- *Assembly should be carried out by at least two persons. Attempting to assemble alone is dangerous.*
- *Be sure to use the correct screw size, as indicated above. Use of incorrect screws can cause damage.*
- *Be sure to tighten up all screws upon completing assembly of each unit.*
- *The entire package must be turned over during assembly, so select an area that is large enough for the unpacking and assembly operation.*

1 Open the carton and remove the parts from the upper level.

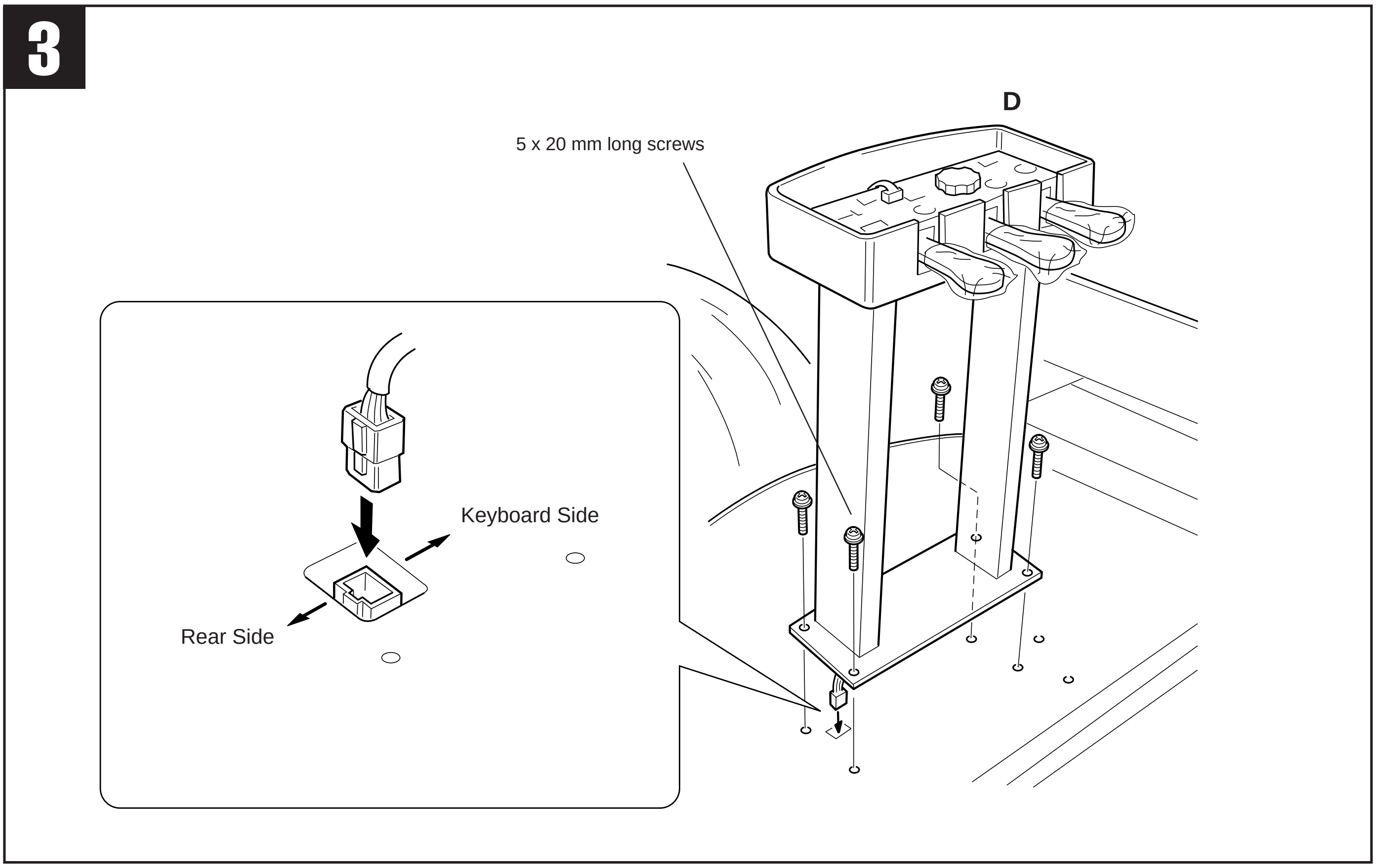
Referring to the illustration, make sure that you have all the required parts.

NOTE • *A bench may be supplied or optional, depending on the location in which the instrument was purchased.*



2 Attach the three legs (A, B, C).

Use scissors or a cutter to remove the packing material in which the main unit is wrapped. Then attach the legs to the bottom of the main unit using four 5 x 20 mm long screws per leg. Please refer to the illustration carefully when attaching the legs, to ensure that the positions of the (A) and (B) legs are not reversed. Also make sure that there is minimum space between the (A) and (B) leg flanges and the metal frame on the bottom of the main unit (the screws which attach the legs to this frame will be installed later, in step 6).

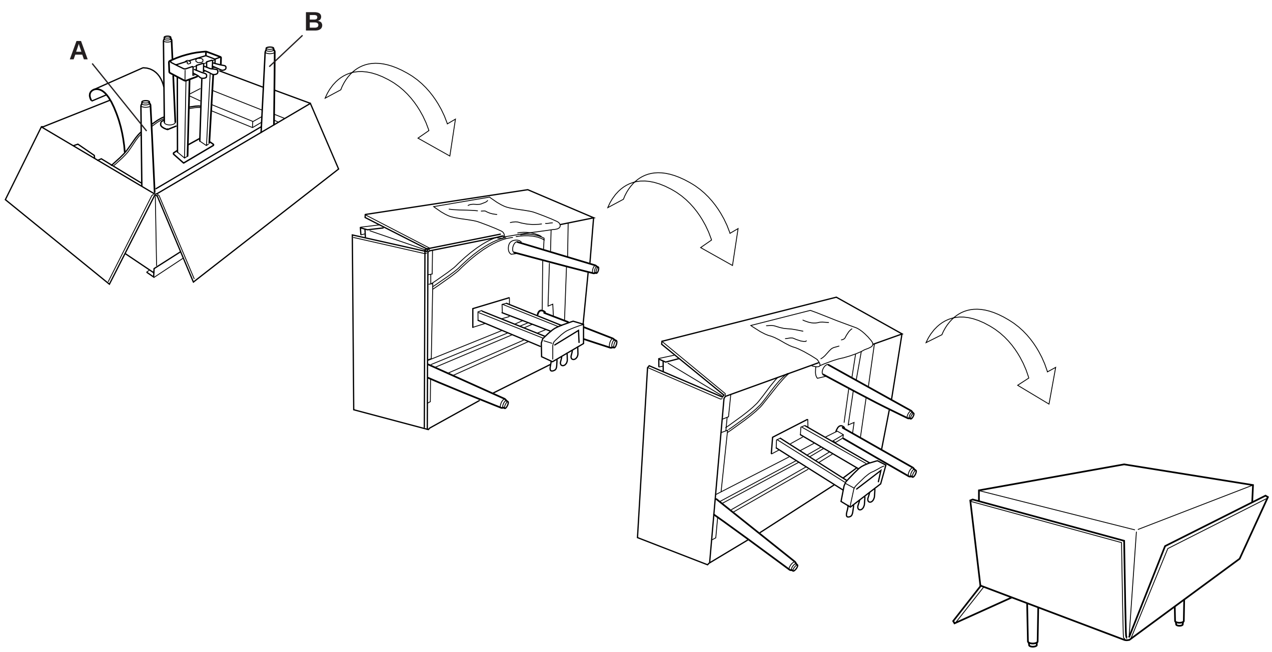


3 Attach the pedal box (D).

Before attaching the pedal box, connect the pedal cord. Pull the pedal plug out from the hole in the base plate and plug it into the socket in the bottom of the main unit with the lug on the plug facing the rear of the main unit (refer to the illustration). If the plug won't go in properly, don't force it … check the plug orientation and try again.

Making sure that the pedal cord doesn't get caught between the base plate and main unit, carefully lower the pedal box assembly onto the bottom of the main unit and line up the screw holes. Finally, attach the pedal box with four 5 x 20 mm long screws.

4

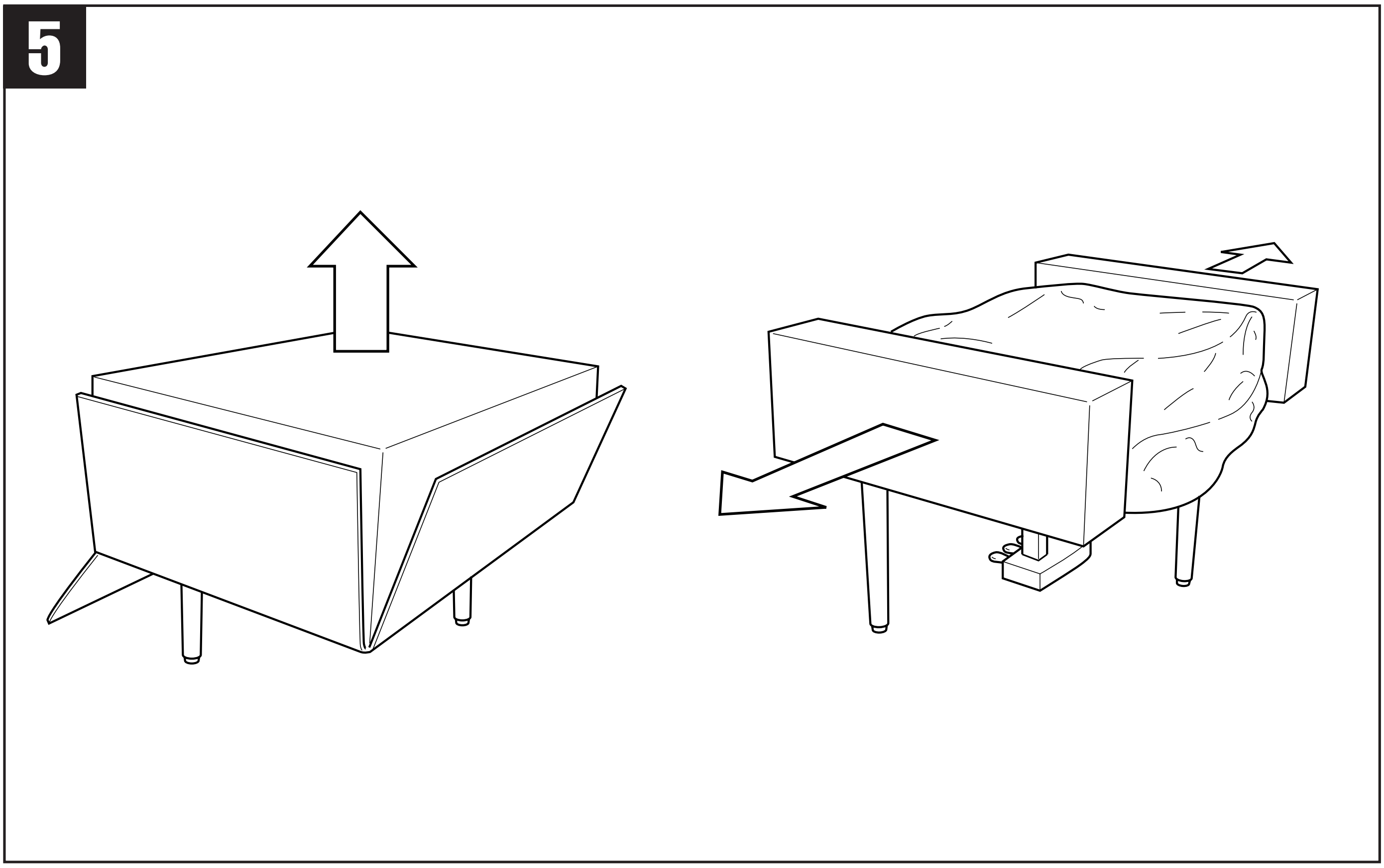


4 **Turn over the instrument and packing.**

Make sure that the three legs are firmly attached, then using the front legs (A) and (B) for support, turn over the instrument and packing so that the carton is on top of the instrument.

⚠ **CAUTION**

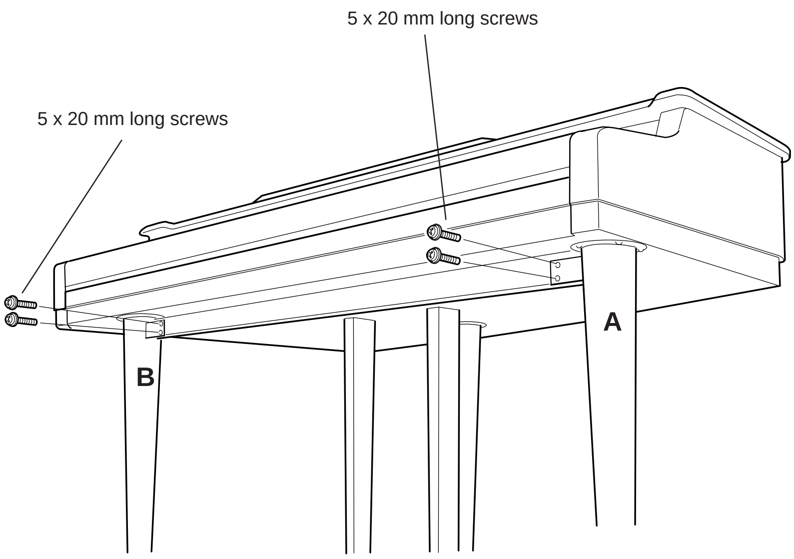
- *Make sure that two persons are used to turn the instrument over. Holding the sides carefully turn over the instrument.*



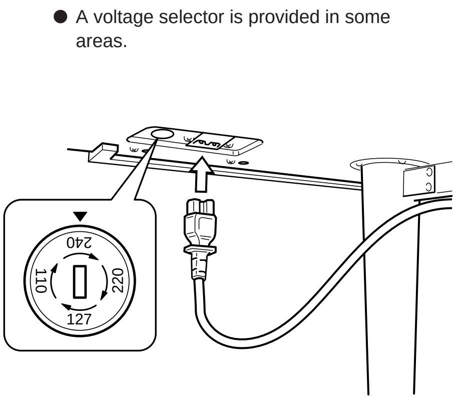
5 Remove the carton and packing material.

Lift and remove the carton, then remove the remaining packing material from the main unit.

6



7



6 Attach the front leg/frame screws.

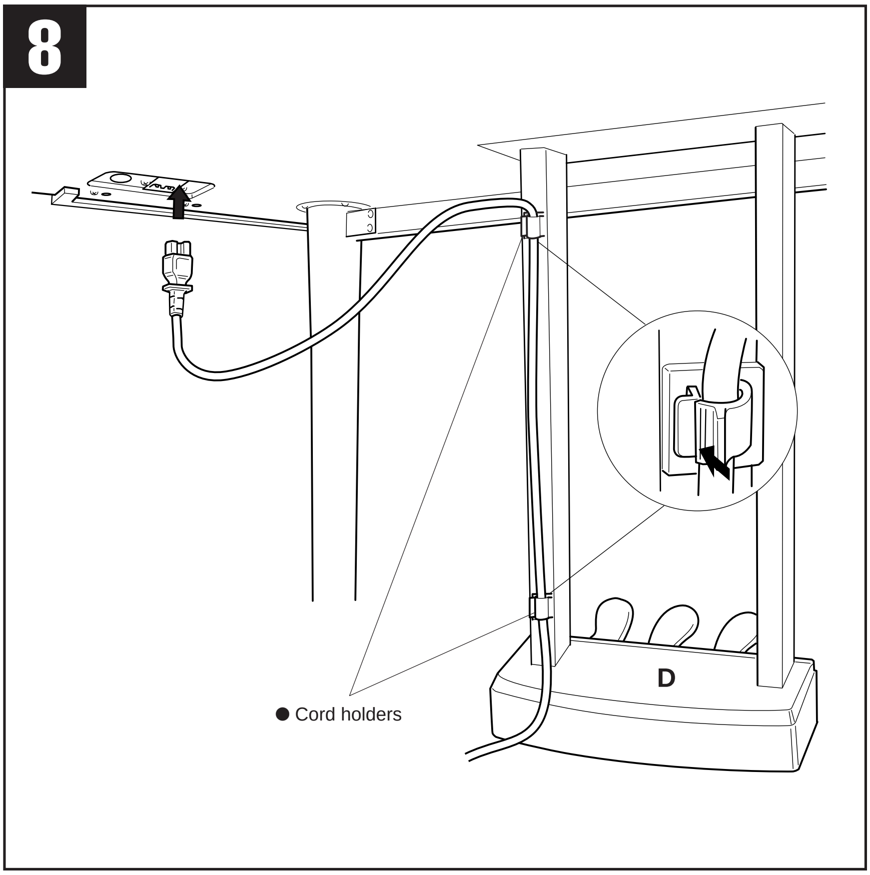
Firmly attach the front legs (A) and (B) to the frame on the bottom of the main unit using two 5 x 20 mm long screws for each leg.

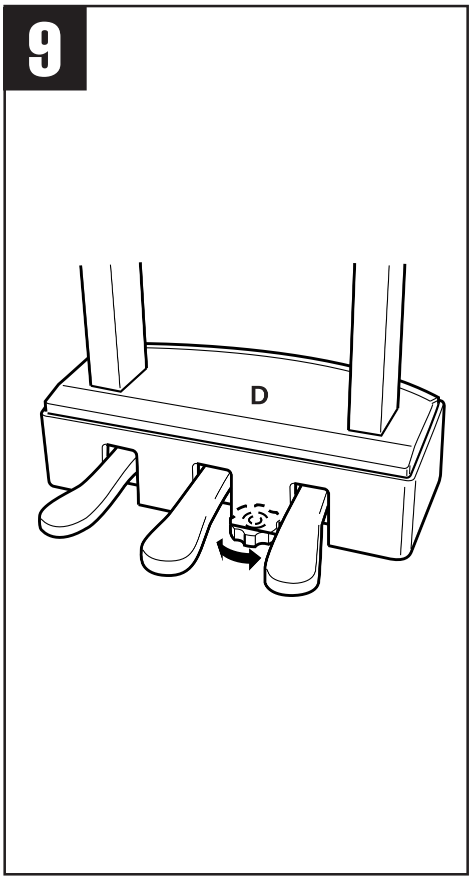
7 Voltage Selector

Check the setting of the voltage selector which is provided in some areas. To set the selector for 110V, 127V, 220V or 240V main voltages, use a “minus” screwdriver to rotate the selector dial so that the correct voltage for your region appears next to the pointer on the panel. The voltage selector is set at 240V when the unit is initially shipped.

⚠CAUTION

- *An improper voltage setting can cause serious damage to the CVP-700 or result in improper operation.*





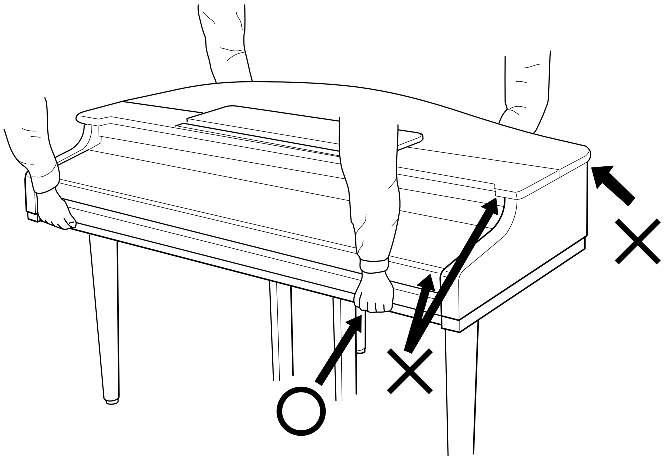
8 Attach the cord holders and plug in the AC cord.

Remove the protective backing from the adhesive surface of the cord holders, and attach at approximately the locations shown in the illustration. Plug the main-unit end of the AC cord into the corresponding socket on the bottom of the main unit, then secure the cord with the cord holders.

A plug adaptor may be also provided in some areas to match the pin configuration of the AC wall outlets in your area.

9 Set the adjuster.

For stability, an adjuster is provided on the bottom of the pedal box (D). Rotate the adjuster until it comes in firm contact with the floor surface. The adjuster ensures stable pedal operation and facilitates pedal effect control. If the adjuster is not in firm contact with the floor surface, distorted sound may result.



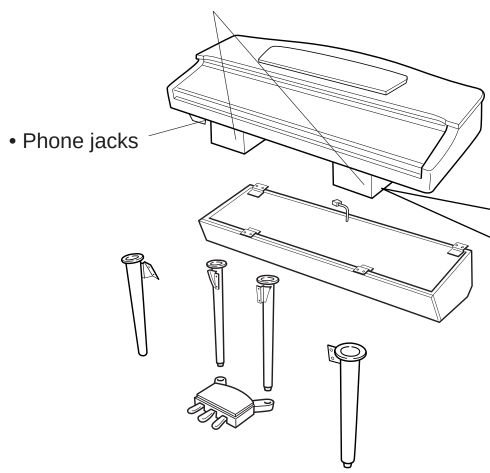
⚠CAUTION

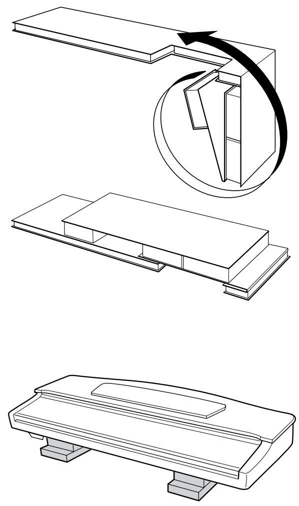
- *When moving the instrument after assembly, always hold the lower surface of the main unit, NEVER the lid or keyboard cover. Improper handling can result in damage to the instrument or personal injury.*

■ After completing the assembly, please check the following.

- Are there any parts left over?
  → Review the assembly procedure and correct any errors.
- Is the Clavinova clear of doors and other movable fixtures?
  → Move the Clavinova to an appropriate location.
- Does the Clavinova make a rattling noise when you shake it?
  → Tighten all screws.
- Does the pedal box rattle or give way when you step on the pedals?
  → Turn the adjuster so that it is set firmly against the floor.
- Are the pedal and power cords inserted securely into the sockets?
  → Check the connection.
- If the main unit creaks or is otherwise unsteady when you play on the keyboard, refer to the assembly diagrams and retighten all screws.

1





• Depending upon the unit type, the unit may be packed with the cardboard packing cushions shown in the illustration. In this case, refold the cushions as shown in the illustration. Rest the main unit in a stable manner on the cushions as shown in the illustration.

CVP109/107: Assembly

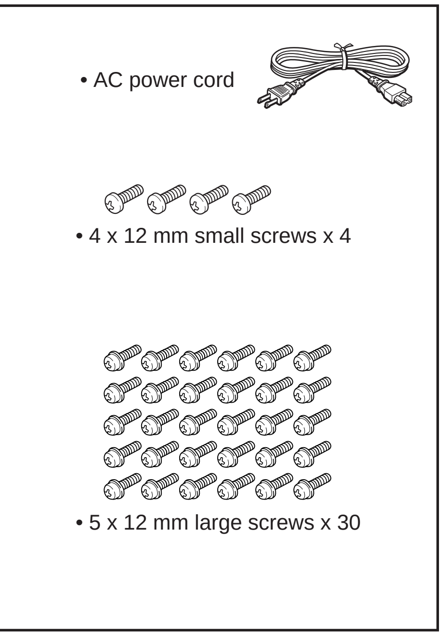
⚠ *CAUTION*

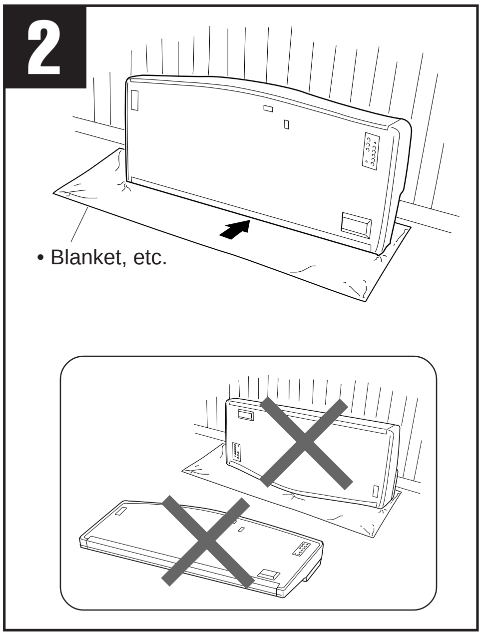
- *Be careful not to confuse parts, and be sure to install all parts in the correct direction. Please assemble in accordance with the sequence given below.*
- *Assembly should be carried out by at least two persons.*
- *Be sure to use the correct screw size, as indicated above. Use of incorrect screws can cause damage.*
- *Be sure to tighten up all screws upon completing assembly of each unit.*
- *To disassemble, reverse the assembly sequence given below.*

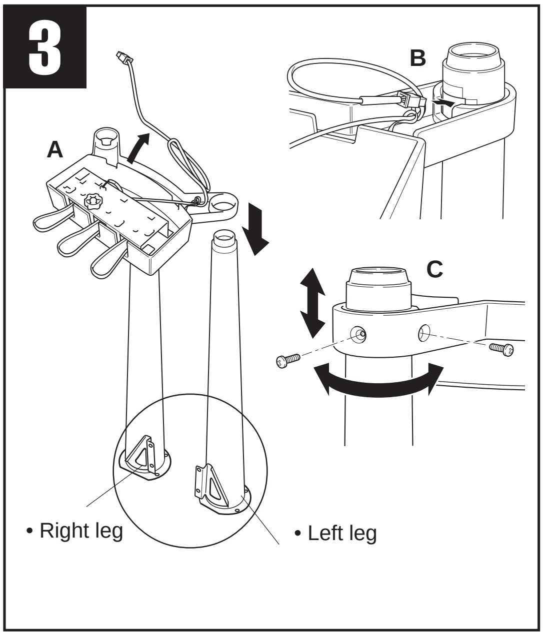
1 Open the box and remove all the parts.

Take out the two cardboard packing cushions and place them on the floor. Then take out main unit and place it on top of the packing cushions. Position the cushions so as to protect the phone jacks on the base of the unit.

Remove all parts from the box. Confirm that all parts shown in the illustration above are provided.







2 Carefully lean the main unit against a wall.

To make it easier to install the legs, place a soft blanket or similar material on the floor near a wall, close the Clavinova keyboard cover, place the front panel of the Clavinova (the side with the keyboard) on the blanket and gently lean the unit against the wall — **MAKING SURE THAT IT CAN NOT FALL** — as shown in the illustration.

⚠CAUTION

- *Do not lay the main unit upside-down on the floor.*

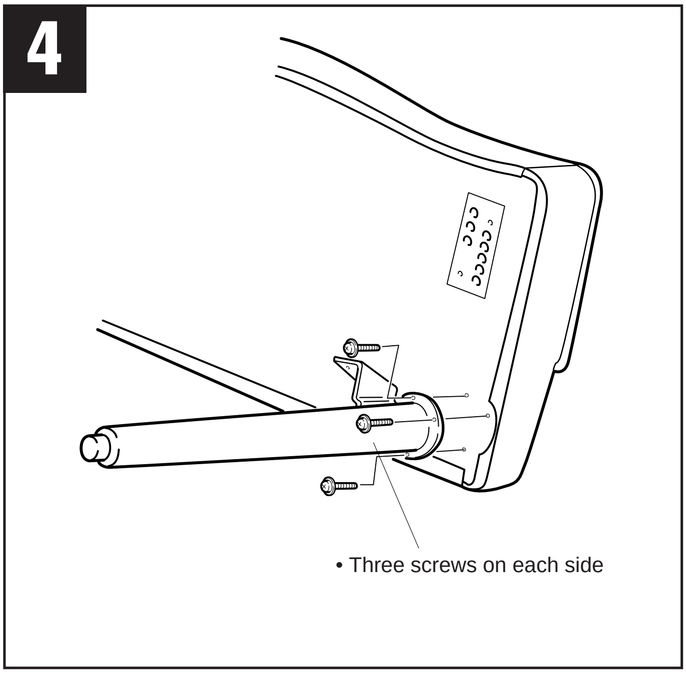
3 Pedal assembly.

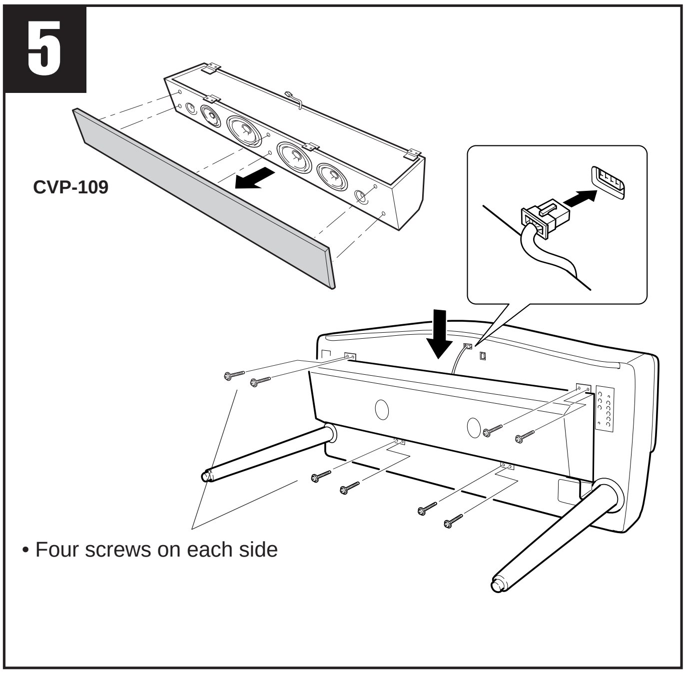
A: Under the pedal box, remove the vinyl tie from the pedal cable (the illustration shows the tie removed). Paying close attention to the direction of the rear legs (take note of the leg brackets in the illustration), slide the pedal box onto the left leg.
B: Align the cut hole in the pedal box with the hole in the left leg and insert the cable into the hole on the left leg, pull the cable out of the top of the left leg.
C: Align the screw holes, attach the two 4 x 12 millimeter small screws to 2 locations. (First tighten both screws loosely, once the position has been determined tighten firmly.)

Use the same procedure (A, B and C) to attach the right leg.(However, the right leg is not equipped with a pedal cord.)

⚠CAUTION

- *When you lift the pedal box assembly, make sure that you lift by both legs.*





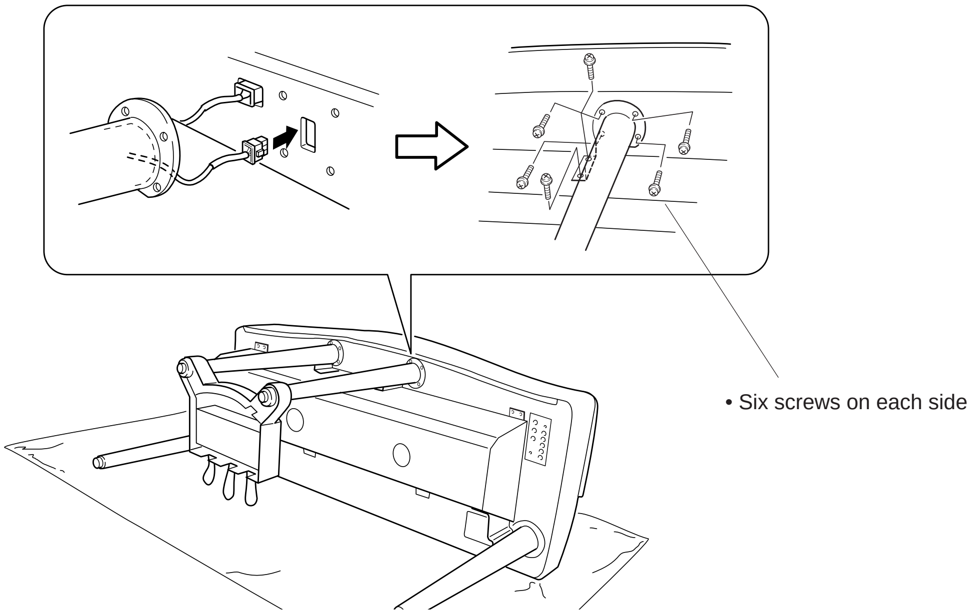
4 Attach the front legs.

Securely attach the two front legs using three 5 x 12 millimeter large screws for each leg (use a Philips "+" screwdriver) as shown in the illustration. Make sure that the screws are firmly tightened.

5 Attach the speaker box.

Remove the speaker box cover (attached to the speaker box in 6 places with plastic plugs) from the speaker box. Gently rest the speaker box onto the corresponding brackets on the front legs. (Be careful not to touch the speakers when handling the speaker box. Damage may result.) Make sure the speaker cord is extending out from the rear of the speaker box. Loosely secure the speaker box to the main keyboard unit using four 5 x 12 millimeter large screws on both the front and back. (The speaker will be secured in step 6.) Insert the speaker cord connector into the corresponding socket on the main keyboard unit, making sure that the protruding clip on the connector is facing up.

6

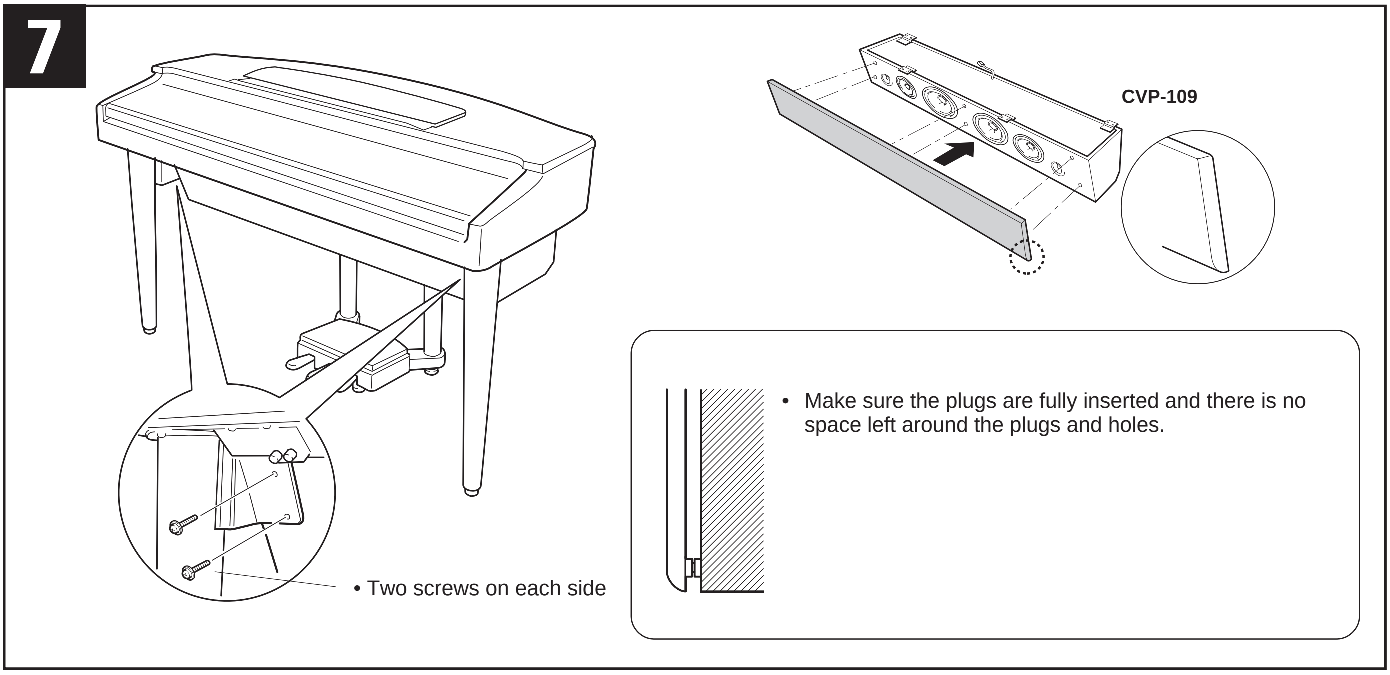


6 Attach the pedal box assembly.

⚠ **CAUTION**

- *When you lift the pedal box assembly, make sure that you lift by both legs.*

Before attaching the rear leg and pedal box assembly, insert the pedal cord plug extending from the left leg into the corresponding socket in the main unit. Make sure that the protruding clip on the connector is on the right. Put the excess cord into the leg and loosely secure the rear leg and pedal assembly using six 5 x 12 millimeter large screws for each leg (four screws per leg and two screws on each leg bracket). Once the rear leg and pedal assembly has been loosely attached, go back and tighten all 12 of the screws on the rear leg and pedal assembly, and also secure the 8 screws on the speaker box.

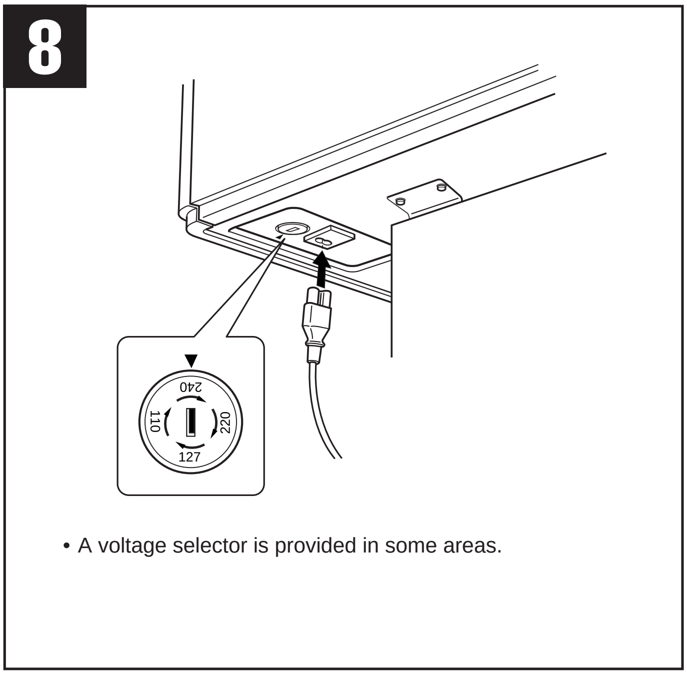


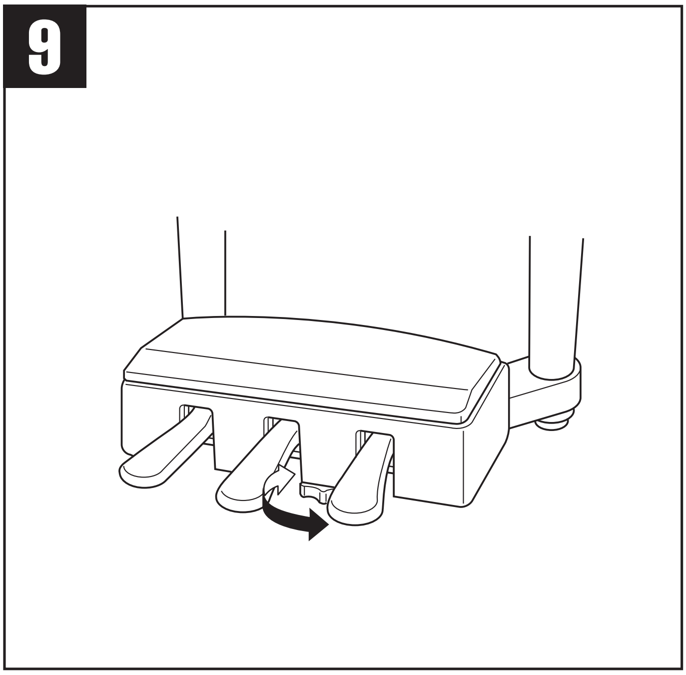
7 Secure the speaker box.

Stand the main unit on its legs and securely attach the speaker box to the bracket on the front legs using two 5 x 12 millimeter large screws for each bracket. If it is impossible to align the bracket holes with the speaker box holes, slightly loosen the three screws on each of the front legs, align the holes, and secure the speaker box. After the speaker box is firmly attached, retighten the screws on the front legs firmly. Put the speaker box cover back in place with the rounded edge of the cover at the bottom, insert the plugs on the cover into their corresponding holes on the speaker box.

⚠CAUTION

- *When attaching the cover first, make sure the cover is not upside-down (the plugs will damage the speakers if attached upside-down) and make sure you push where the plugs are. The speaker cover is made of a soft material so pushing in a place where there are no plugs may cause damage.*





8 Voltage Selector

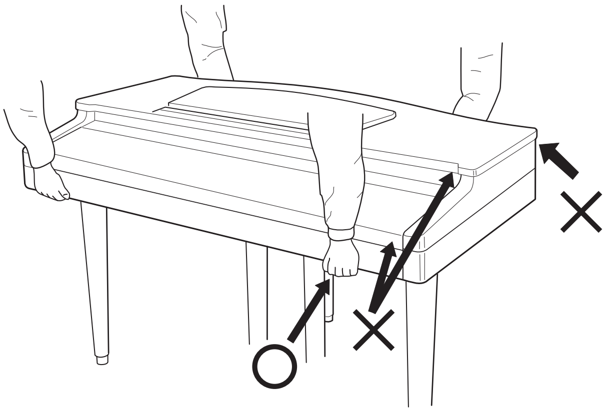
Before connecting the AC power cord, check the setting of the voltage selector which is provided in some areas. To set the selector for 110V, 127V, 220V or 240V main voltages, use a "minus" screwdriver to rotate the selector dial so that the correct voltage for your region appears next to the pointer on the panel. The voltage selector is set at 240V when the unit is initially shipped.
After the proper voltage has been selected, connect the AC power cord to the AC INLET and an AC wall outlet.
A plug adaptor may be also provided in some areas to match the pin configuration of the AC wall outlets in your area.

⚠CAUTION

- *An improper voltage setting can cause serious damage to the CVP-109 /107 or result in improper operation.*

9 Set the adjuster.

For stability, an adjuster is provided on the bottom of the pedal box. Rotate the adjuster until it comes in firm contact with the floor surface. The adjuster ensures stable pedal operation and facilitates pedal effect control. If the adjuster is not in firm contact with the floor surface, distorted sound may result.



⚠CAUTION

- *When moving the instrument after assembly, always hold the lower surface of the main unit, NEVER the top portion or keyboard cover. Improper handling can result in damage to the instrument or personal injury.*

■ After completing the assembly, please check the following.

- Are there any parts left over?
  - → Review the assembly procedure and correct any errors.
- Is the Clavinova clear of doors and other movable fixtures?
  - → Move the Clavinova to an appropriate location.
- Does the Clavinova make a rattling noise when you shake it?
  - → Tighten all screws.
- Does the pedal box rattle or give way when you step on the pedals?
  - → Turn the adjuster so that it is set firmly against the floor.
- Is the power cord inserted securely into the socket?
  - → Check the connection.
- If the main unit creaks or is otherwise unsteady when you play on the keyboard, refer to the assembly diagrams and retighten all screws.

Specifications

KEYBOARD		88 keys (A–1 — C7)
TONE GENERATOR		AWM (Advanced Wave Memory)
MAXIMUM SIMULTANEOUS POLYPHONY		128 (CVP-109), 64 (CVP-107/700), 64 (CVP-105), 64 (CVP-103)
VOICES		**Clavinova voices:** 224 (CVP-109/107/700), 195 (CVP-105/103) **Organ Flutes voices:** 6 (CVP-109/107/700) **XG voices:** 480 **Drum Kits:** 13 sets (CVP-109/107/700), 12 sets (CVP-105/103) **Voice Groups:** Piano, Electric Piano, Guitar, Synthesizer, Organ, Strings/Choir, Brass, Sax/Flute, Bass, Percussion, Ensemble, XG Dual, Split
EFFECTS		**Natural Reverb:** 5 types (CVP-109) **Reverb:** 12 types **Chorus:** 9 types **Effect:** 50 types x 2 (CVP-109/107/700), 45 types (CVP-105/103) **Vocal Harmony:** 42 types (CVP-109/107/700)
TONE CONTROLS		Master Equalizer (CVP-109/107/700)
ACCOMPANIMENT STYLES		**Rhythm Styles:** 157 (CVP-109), 147 (CVP-107/700), 135 (CVP-105), 125 (CVP-103) **Pianist Styles:** 35 **Custom Styles:** 12 (CVP-109/107/105/700), 4 (CVP-103) **Style Groups:** 8Beat, 16Beat, Ballad, Dance, Rock/R&B, Swing/Jazz, Latin, Country, Ballroom, Trad/Waltz, Pianist, Disk/Custom **Controls:** Intro, Main A, Main B ,Main C, Main D, Auto-fill, Ending, Fade in/out, Synchro, Start/Stop, Tap, Metronome, Tempo –/+
AUTO ACCOMPANIMENT		**Music Database:** 564 (CVP-109), 534 (CVP-107/700), 498 (CVP-105), 463 (CVP-103) Single Finger, Multi Finger, Fingered1, Fingered2, Full Keyboard Acmp Assist (CVP-109/107/105/700), Harmony, One Touch Setting, Chord Assist, Synchro Stop, Individual Part Volume Control (Mixer)
REGISTRATION		Bank A – E x 4 memory locations (20), Freeze, Registration Name (CVP-109/107/105/700)
SONG PLAY MODE		Song Playback, Repeat, Volume control of individual Parts (Mixer) **Controls:** Song, Play/Stop, Rewind, Fast forward, Pause **Guide Control:** Easy Play, Next Note, Sound Repeat Lyric Display, Piano Roll Display, Keyboard Guide Lamps
SONG RECORD MODE		Quick Recording, Track Recording, Chord Sequence, Step Edit (CVP-109/107/105/700), Song Name, Track Edit, Initial Edit, Setup Memory, Vocal Harmony Memory (CVP-109/107/700)
LCD/CONTROLS		320 x 240 dot (240 x 64 dot: CVP-103) liquid crystal display, Contrast dial, Beat lamp, Function button, Mixer button, Page ◀ ▶ buttons, Direct Access button, LCD buttons, data dial, –/+ buttons, Exit button
VOLUME CONTROLS		Master volume, Acmp/Song volume
DEMO/HELP		50 Demo Songs; 5 help languages (English, Japanese, German, French, Spanish)
DISK DRIVE		3.5-inch micro floppy disk drive
PEDAL CONTROLS	RIGHT	Damper, Pitch Bend (CVP-109/107/700)
	CENTER	Sostenuto
	LEFT	Soft, Damper (CVP-109/107/700), Start/Stop, Harmony, Registration, Registration Freeze, Ending/rit, Break, Break Fill, Bass Hold, Fade In/Out, Effect 1/2 Variation (CVP-109/107/700), Effect Variation (CVP-105/103), Glide
JACKS AND TERMINALS		PHONES jacks x 2, AUX OUT jacks (L/L+R, R), AUX IN jacks (L/L+R, R), EXP.PEDAL jack (CVP-109/107/700), MIC. jack (CVP-109/107/700), VIDEO OUT jack (CVP-109/107/700), TO HOST terminal, MIDI terminals (IN, OUT, THRU)
INPUT/OUTPUT SPECIFICATIONS		**AUX OUT:** Output Impedance: 600 Ω **AUX IN:** Input Impedance: 10 kΩ; Input Sensitivity: –10 dBm

	CVP-109	CVP-107	CVP-105	CVP-103	CVP-700
MAIN AMPLIFIERS	240W (60W x 4)	120W (60W x 2)	80W (40W x 2)	80W (40W x 2)	120W (60W x 2)
SPEAKERS	16cm x 2, 13cm x 2, 3cm x 2, 5cm x 2	16cm x 2, 5cm x 2, 3cm x 2	16cm x 2, 5cm x 2	16cm x 2, 5cm x 2	16cm x 2, 5cm x 2 3cm x 2
DIMENSIONS (W x D x H)	Music stand down				Lid down
	1415mm x 602mm x 887mm (55-3/4" x 23-11/16" x 34-15/16")	1415mm x 602mm x 887mm (55-3/4" x 23-11/16" x 34-15/16")	1402mm x 609mm x 888mm (55-3/16" x 24" x 35")	1394mm x 561mm x 854mm (54-7/8" x 22-1/16" x 33-5/8")	1417mm x 870mm x 908mm (55-3/4" x 34-1/4" x 35-3/4")
	Music stand up				Lid up
	1415mm x 602mm x 1054mm (55-3/4" x 23-11/16" x 41-1/2")	1415mm x 602mm x 1054mm (55-3/4" x 23-11/16" x 41-1/2")	1402mm x 609mm x 1049mm (55-3/16" x 24" x 41-5/16")	1394mm x 561mm x 1020mm (54-7/8" x 22-1/16" x 40-1/8")	1417mm x 870mm x 1253mm (55-3/4" x 34-1/4" x 49-3/8")
WEIGHT	71.3kg (157lbs., 3oz.)	66.3kg (146lbs., 3oz.)	64.1kg (141lbs., 5oz.)	Models with key cover: 56.0kg (123lbs., 7oz.) Models without key cover: 54.0kg (119lbs., 1oz.)	86.5kg (190lbs., 11oz.)

- *Specifications and descriptions in this owner's manual are for information purposes only. Yamaha Corp. reserves the right to change or modify products or specifications at any time without prior notice. Since specifications, equipment or options may not be the same in every locale, please check with your Yamaha dealer.*

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